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## indiantelevision.com's TV Technology Update Scientists use Artificial Intelligence Software for broadband TV set-top box

(Posted on 15 March 2002 5:30 pm)



Computer scientists at Texas based BIAP Systems have announced that they have successfully embedded artificial-intelligence-based software on broadband television set-top boxes. The company provides intelligent software for multiple computing devices according to an official release.

The embedding of BIAP software on current generation digital set-top boxes marks the first time that a software application based on intelligent agents and artificial intelligence has been made to run on a set-top.

Chief technology officer BIAP Aaron Ye said, "The significance of this achievement is that we can now do some amazing things without additional hardware. All the power is in the software, which will bring new levels of intelligence to current generation digital set-tops. We believe this important milestone in the evolution of digital television now paves the way for many new enhanced broadband TV services."

The BIAP application, which requires no headend servers or middleware components, is a small-footprint software module that runs on the digital set-top. It sends out intelligent agents to automatically retrieve content from digital data sources. BIAP will market the application to broadband television service providers. They will offer subscribers a new kind of personalized, non-linear TV experience through a simple software application download.

CEO BIAP Tim Peters said, "This is a new convergence -- the convergence of broadband television and artificial intelligence. Over the past 10 years, many of the biggest companies in the world have deployed enormous resources and their best development talent to interactive television. Important advancements have been made, but getting the economic model to work has been a significant challenge. But now, as a result of this technological breakthrough, an entirely new viable economic model is possible".

The release informs that the set-top software application involved three years of development by BIAP scientists, who had been working on complex software solutions, using artificial intelligence, for government, business and

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consumer applications.

The result of that development was a patent-pending software technology platform that brings powerful computing capabilities and intelligence to so-called "edge" devices, such as set-tops, PCs, laptops, and mobile and wireless handhelds the release states.

BIAP claims to develop next-generation smartware. BIAP-powered solutions are operating system independent and non-server-centric, and bring new levels of computing intelligence to edge devices. BIAP solutions claim to automate content retrieval, aggregation, distribution, categorisation and sharing.

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10/820,196

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4	1564	IMR or (intelligent adj media adj router\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
5	0	(IMR or (intelligent adj media adj router\$1)) and (trust\$6 with (relationship\$1 or connection\$1 or association\$1 or correlation\$1))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
6	0	(IMR or (intelligent adj media adj router\$1)) same (trust\$6 with (relationship\$1 or connection\$1 or association\$1 or correlation\$1))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
7	1	(IMR or (intelligent adj media adj router\$1)) and (trust\$6 same (relationship\$1 or connection\$1 or association\$1 or correlation\$1))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
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15	34	(((((router\$1 and (client\$1 or user\$1 or customer\$1) and server\$1 and (meta\$1data same tag\$6)) and (@ad<20030407)) and ((encod\$6 or convert\$6) with (information or data))) and (manufacturer\$1 or producer\$1 or maker\$1 or compan\$3 or firm\$1)) and (distributor\$1 or vendor\$1 or dispenser\$1 or ((slot or vending) adj machine\$1) )) and (control\$6 or monitor\$6) and time	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB

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	Hits	Search Text	DBs
19	10	((((((((router\$1 and (client\$1 or user\$1 or customer\$1) and server\$1 and (meta\$1data same tag\$6)) and (@ad<20030407)) and ((encod\$6 or convert\$6) with (information or data))) and (manufacturer\$1 or producer\$1 or maker\$1 or compan\$3 or firm\$1)) and (distributor\$1 or vendor\$1 or dispenser\$1 or ((slot or vending) adj machine\$1) )) and (control\$6 or monitor\$6) and time ) and legacy) and (html or (hypertext adj markup adj language\$1))) and (portable or light\$1weight)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
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	Hits	Search Text	DBs
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22	34	((((router\$1 and (client\$1 or user\$1 or customer\$1) and server\$1 and (meta\$1data same tag\$6)) and (@ad<20030407)) and ((encod\$6 or convert\$6) with (information or data))) and (manufacturer\$1 or producer\$1 or maker\$1 or compan\$3 or firm\$1)) and (distributor\$1 or vendor\$1 or dispenser\$1 or ((slot or vending) adj machine\$1) )) and (control\$6 or monitor\$6) and time	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB

	Hits	Search Text	DBs
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25	41310	((710/266) or (710/260) or (710/264) or (710/1) or (710/36) or (710/48) or (360/66) or (360/55) or (375/211) or (375/213) or (375/211) or (707/1-10) or (707/100-104.1) or (709/200-203) or (709/217-219) or (709/223-226) or (709/230-234) or (709/238-244) or (395/200.53) or (395/200.54) or (395/200.55) or (395/200.59) or (395/200.68) or (395/200.7)).CCLS.) and (@ad<20030407)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
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	Hits	Search Text	DBs
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28	55	router\$1 and (meta\$1data same tag\$6) and server\$1 and (encod\$6 or convert\$5) and (distributor\$1 or vendor\$1) and (manufacturer\$1 or producer\$1 or compan\$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
29	44	(router\$1 and (meta\$1data same tag\$6) and server\$1 and (encod\$6 or convert\$5) and (distributor\$1 or vendor\$1) and (manufacturer\$1 or producer\$1 or compan\$3)) and. (@ad<20030407)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB

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1	3	("2002037917").PN.	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB
2	1141	secur\$6 and (encod\$6 or convert\$6) and decod\$6 and (meta\$1data or ((movie\$1 or (data adj stream\$1) or program\$1) with (title\$1 or name\$1))) and tag\$6	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB
3	1058	12 and (@ad<20030407)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB
4	702	14 and rout\$6 and server\$1 and (viewer\$1 or client\$1 or customer\$1)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB
5	346	15 and ((global adj unique adj identifier\$1) or guid\$1)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB
6	18	15 and (global same unique with identifier\$1)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB
7	23	15 and (global same unique same identifier\$1)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB

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8	7	l10 and (media with (object\$1 or item\$1))	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB
9	7	l11 and (portable or light\$1weight\$1)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB
10	5	l12 and legacy	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB
11	5	l13 and (set\$1top adj box\$3)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB
12	5	l14 and time and rout\$6	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB
13	1	l5 and (global adj unique adj identifier\$1)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB
14	5	l5 and (global with unique with identifier\$1)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB

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This **router** will distribute all requests among available Web servers. ...

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... LANTUG 1-10-96 cancelled due to scheduling "Mark J. **Kapczynski**" &ltmark@LANTUG.ORG>. ...  
Cisco **router** and RAS Al Blake - Senior Analyst Prog &ltalb@FFA.GOV.SB>. ...

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&ltmark@LANTUG.ORG>. ... NT Networking and Cisco **router** Al Blake - SPC &ltalb@SPC.ORG>. ...

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... Mark **Kapczynski** Principal, **Media** and Entertainment Group Microsoft Corporation  
<http://www.microsoft.com>. Mark **Kapczynski** has been ...

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... Sales Engineer, Pathfire; Mark **Kapczynski**, Principal, **Media** and Entertainment Group, Microsoft Corporation; Brent Roske, President ...

[www.streamingmedia.com/west2001/program/session.asp?d=3&t=2&s=2](http://www.streamingmedia.com/west2001/program/session.asp?d=3&t=2&s=2) - 27k -

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### Digital Media Wire - PAST DMW EVENTS

... Bryan Biniak - EVP, Business Dev., Moviso Kevin MacLellan - SVP, Intl, E! Networks  
 Mark **Kapczynski** - Principal, **Media** & Entertainment Group, Microsoft Dr ...

[www.digitalmediawire.com/dmw\\_event1.html](http://www.digitalmediawire.com/dmw_event1.html) - 69k - [Cached](#) - [Similar pages](#)

### Digital Coast Roundtable Breakfast Series - October 2001

... Digital Cinema; David Gajda, Hollywood Software; Sean Carey, Sony Pictures Entertainment; and Mark **Kapczynski**, Microsoft - **Media** and Entertainment Group. ...

[www.digitalcoast.org/breakfast2001-10.html](http://www.digitalcoast.org/breakfast2001-10.html) - 9k - [Cached](#) - [Similar pages](#)

### MESoft - Media & Entertainment Software and Services

... production on IndieProducing.com, a site dedicated to independent productions of motion pictures, digital **media** & television. Mark **Kapczynski** discusses Digital ...

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### MESoft - Media & Entertainment Software and Services

NAB has become one of the largest **media** industry events and MESoft was ... MESoft's Mark **Kapczynski** and Freddy Goeske with the Thomson Viper Filmstream™ camera. ...

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... KC Hildreth, COO, GoldPocket Interactive. Steve Hoffman, CEO, Spiderdance. Mark **Kapczynski**, Principal, **Media** & Entertainment Solutions Group, Microsoft. ...

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### Post - Dailies to Go

... Adds **Kapczynski**, "The whole philosophy behind our Select software product is to ... people, regardless of the disparate software, hardware or **media** player formats ...

[www.postmagazine.com/post/article/articleDetail.jsp?id=68859&sk=&date=&pageID=3](http://www.postmagazine.com/post/article/articleDetail.jsp?id=68859&sk=&date=&pageID=3) - 68k -

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### Digital.Hollywood

... Mr. **Kapczynski** is a prominent speaker in the **media** industry and has given numerous presentations at such top venues as NAB, IBC, Comdex, Digital Hollywood ...

[www.digitalhollywood.com/%231DHSpring/DHSpringWednesdayThree.html](http://www.digitalhollywood.com/%231DHSpring/DHSpringWednesdayThree.html) - 13k - [Cached](#) - [Similar pages](#)

Video Systems: A DAM good article... the DAM marketplace. Mark J. **Kapczynski Media** and Entertainment Group, MicrosoftConsulting Services. **Media** 100's future? I enjoyed ...[www.findarticles.com/p/articles/mi\\_m0HFE/is\\_2001\\_May\\_1/ai\\_74807101](http://www.findarticles.com/p/articles/mi_m0HFE/is_2001_May_1/ai_74807101) - 16k - [Cached](#) - [Similar pages](#)

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indiantelevision.com's TV Technology Update. MESoft Partners' digital dailies review, approval software. Indiantelevision.com Team (21 April 2003 1:00 pm). ...

[www.indiantelevision.com/tec/y2k3/apr/aprtec18.htm](http://www.indiantelevision.com/tec/y2k3/apr/aprtec18.htm) - 11k - [Cached](#) - [Similar pages](#)

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### Business Wire: MESoft Partners LLC Introduces Digital Dailies ...

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[www.findarticles.com/cf\\_dls/m0EIN/2003\\_April\\_7/99727531/p1/article.jhtml](http://www.findarticles.com/cf_dls/m0EIN/2003_April_7/99727531/p1/article.jhtml) - 13k - Supplemental Result - [Cached](#) - [Similar pages](#)

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### MESOFT Aggiornato al 18/04/2004 (Livello 0)

... nella propria farmacia di fiducia Codice Prodotto Descrizione

Prezzo ----- 902093234 MESOFT CPR TNT N ST ...

[www.giofil.it/par/PAR14309.HTM](http://www.giofil.it/par/PAR14309.HTM) - 7k - Supplemental Result - [Cached](#) - [Similar pages](#)

### Post - Dailies to Go

... hard disk drives, databases, the Internet and more - along with timecode, simple audio and advanced metadata," says Mark Kapczynski, CEO of MESoft Partners ([www ...](http://www.postmagazine.com/post/article/articleDetail.jsp?id=68859&sk=&date=&pageID=3))

[www.postmagazine.com/post/article/articleDetail.jsp?id=68859&sk=&date=&pageID=3](http://www.postmagazine.com/post/article/articleDetail.jsp?id=68859&sk=&date=&pageID=3) - 68k -

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### Post - NEW DIGITAL DAILIES SYSTEMS INTRODUCED AT NAB

... Also, MESoft Partners LLC [www.mesoft.com](http://www.mesoft.com), a software company building a digital media operating system and suite of supply chain applications for companies ...

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... Info. Add to cart SWA257D SWAB MESOFT NON WOVEN NON STER 10X10CM SWA257D. SWAB

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NON WOVEN NON STER 10X10CM, full details now on our new online catalogue, ...

[www.westons.com/completes/completes1164.htm](http://www.westons.com/completes/completes1164.htm) - 101k - [Cached](#) - [Similar pages](#)

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... BUY NOW. Info. Info. SWA257D. SWAB MESOFT NON WOVEN NON STER 10X10CM, full details now on our new online catalogue, Info. SWA257D. SWAB ...

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### [Full Retreat Program Schedule - Hollywood Post Alliance](#)

... The Digital Workflow - Mark Kapczynski, **MESoft** Lessons Learned and Practical Experiences from Digital Cinema - Harry Mathias, Barco The "Broadcast Flag ...

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### [SGI - Third Party Applications Directory](#)

... EAU Integration for Discreet by **MESoft** Corporation. ... Company Information: **MESoft** Corporation 914 Westwood Blvd. #560 Los Angeles, Ca 90024 USA. ...

[www.sgi.com/products/appsdirectory.dir/irix/products/e/933036.html](#) - 26k - [Cached](#) - [Similar pages](#)

### [Member Companies - Intel\(R\) Developer Network for Digital Home](#)

... MegaChips System Solutions, <http://www.sys.megachips.co.jp/>. MeshNetworks, <http://www.meshnetworks.com>. **MESoft**, <http://www.mesoft.com>. Microlink Communications, ...

[www.dhtools.org/roster](#) - 72k - [Cached](#) - [Similar pages](#)

### [Holiday Inn Express San Diego-LA Mesa Sdsu Area, \[ 9550 ...](#)

United States » California » La Mesa hotel. ...

[la-mesa.uca.allhotels.ws/en/hotel/3-10218403-0/holiday-inn-express-san-diego-la-mesa-sdsu-area/](#) - 58k - [Cached](#) - [Similar pages](#)

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... 04/16/2003 :: **MESoft** Partners LLC Introduces Digital Dailies Review and Approval Software at NAB 2003; Software Integrates Digital Technology Onto Film Set ...

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Satellite Channels

Satellites covering India

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Demographics

## Indian Broadcasting

History

Current Status

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Legal Resources

## Interactive Services

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- \* **Scientific-Atlanta introduces new Euro-Docsis 1.0 Certified cable modem** (23 March 2002)
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- \* **Pixelworks selects QNX for ultimate convergence chip** (20 March 2002)
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- \* **Scientific-Atlanta to aid Charter in interactive TV rollout** (19 March 2002)
- \* **VectorMAX Corporation is offering royalty free streaming media Codec** (18 March 2002)
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- \* **CommScope introduces Extremeflex wireless cables for flexible applications** (16 March 2002)
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- \* **National Semiconductor showcasing 'Entertainment-on-Demand' at CeBIT 2002** (15 March 2002)
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- \* **Scientists use Artificial Intelligence Software for broadband TV set-top box** (15 March 2002)
- \* **Trident's second generation encoders for PC, DVD, set-top box applications** (7 March 2002)
- \* **CableLabs completes video-on-demand specifications** (6 March 2002)
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Studios

## Satellite Reckoner

Satellite Channels

Satellites covering India

## Market Database

Demographics

## Indian Broadcasting

History

Current Status

India's Television future

Legal Resources

## Interactive Services

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- \* **Key Asia Pacific customers sign on for NXN Software** (21 February 2002)
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- \* **Red Hat and SuperH develop open source tools for new 64 bit processors** (15 February 2002)
- \* **Motorola forms digital media group** (15 February 2002)
- \* **Sony Pictures Digital Entertainment forms digital networks division** (15 February 2002)
- \* **MetaTV deploys platform for interactive TV applications services** (14 February 2002)
- \* **NBC selects Marconi for new national broadband video distribution network** (8 February 2002)
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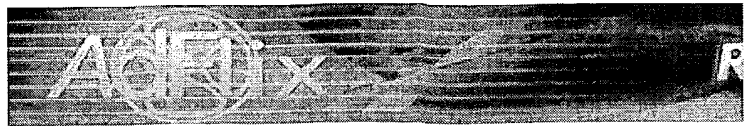
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**e-Newsletters**

**ACACIA INFO**

**Press Releases**

**Research Reports**

**White Papers**

**Discussion Lists**

**What Is Streaming?**

**Industry Directory**

**Careers**

**Research Center**

**TECHNOLOGY**

Hosting/CDN/Storage

Hardware

Software

Encoding

Windows Media

RealNetworks

QuickTime

MPEG

Flash

Live Webcasting

Wireless

Advertising

DRM

Legal Issues

Convergence/TV

Measurement/Reporting

**VERTICALS**

Streaming Industry

Enterprise

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Education

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**Tech Reports**

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► **DivX Releases Version 5.2**

Along with the usual promises—better image quality, faster encoding speeds—DivX has built in several new features designed to make the codec more appealing to both the PC and CE markets. (7/21/2004)

► **Squeeze Play: Sorenson's New Encoding Suite Hits the Mark**

With a brand-new interface, batch processing, and more output formats than ever, the Squeeze 4 Compression Suite will be a force to be reckoned with in the ever-competitive encoder market. (6/29/2004)

► **Streaming Media Metafiles Part Two: ASX files**

Streaming metafiles give you control over the presentation and delivery of your streaming media content. This week we continue our look at the basics of metafiles with an overview of the Windows Media ASX format. (8/26/2003)

► **Encoding Tools Product Review**

The multi-codec encoder field is more crowded now, but direct competition is surprisingly mild as the three leading products—ProCoder, Squeeze, and the radically reinvented Cleaner XL—pursue different audiences. Which is right for your workflow will depend on what you know and what you do. (5/13/2003)

► **Guide to Great Web Video: Preprocessing Video**

In Part 2, contributor Barb Roeder goes through the why's and how's of de-interlacing, frame rate conversions and inverse telecine. For part 1, [click here](#) (5/2/2002)

► **A Guide to Great Web Video: Preprocessing Video - Part 1**

Delivering good quality video almost invariably requires preprocessing of source video. Contributor Barb Roeder lays the groundwork in discussing some of the most important preprocessing filters. (4/22/2002)

► **Sure-Fire Tips for Encoding High-Quality, Low-Bandwidth Audio, Part 2**

In the second of two parts, we outline editing and encoding tips to deliver high-quality audio to the dial-up and mobile phone network crowd. (4/9/2002)

► **Sure-Fire Tips for Encoding High-Quality, Low-Bandwidth Audio, Part 1**

In the first of a two-part tutorial, we look at some helpful recording and encoding tips to deliver high-quality audio to the dial-up and mobile phone network crowd. (4/2/2002)

► **MPEG-4 AAC Licensing Announcement Gets Support**

MPEG-4 audio licensing announcements welcomed by many in the industry; and DivXNetworks inks agreement with film distributor Monument Video (3/28/2002)

► **Choosing The Right Capture Solution**

With a host of recent changes in capture boards, contributor Dee McVicker surveys the options available for pros, prosumers and consumers. (3/11/2002)

► **The Other Side of Compression**

This month we dissect the latest codecs from DivX Networks (DivX 4.0.1), On2 Technologies (VP3 and VP4) and Media Metasis (ZygoVideo) and tell you how to get the best results from each. (1/8/2002)

► **Multi-format Encoding: No Sweat for FlipFactory**

Telestream's new transcoder and media delivery system is limber enough for even the most rigorous multi-format, multi-bit rate workout, but you'll have to let loose with some greenbacks to get it (12/18/2001)

► **Quality Comparison: RealVideo, Windows Media Video and Sorenson Video**

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S15	1965765	S1 OR S2
S16	954	S15 AND S3 AND S4
S17	10076	S15 AND S5 AND (S6 (2N) S7)
S18	299	S17 AND S8 AND S9
S19	23402	S10 AND S11 AND S12
S20	888	S10 AND S11 AND S13
S21	23708	S19 OR S20
S22	0	S16 AND S17 AND S18 AND S21
S23	0	S16 AND S18
S24	8	S16 AND S17
S25	24	S16 AND S21
S26	299	S17 AND S18
S27	35	S26 AND S21
S28	66	S24 OR S25 OR S27
S29	31	S28 AND IC=G06F?
S30	2	S29 AND S14
S31	31	S29 OR S30

File 347:JAPIO Nov 1976-2004/Apr(Updated 040802)

(c) 2004 JPO & JAPIO

File 350:Derwent WPIX 1963-2004/UD,UM &UP=200454

(c) 2004 Thomson Derwent

Priority Applications (No Type Date): US 2002429941 P 20021129; US  
2003612577 A 20030702

Patent Details:

Patent No	Kind	Lang	Pg	Main IPC	Filing Notes
US 20040107407 A1	19	G06F-017/50		Provisional application	US 2002429941

Abstract (Basic): US 20040107407 A1

NOVELTY - The system-on-a-chip has a processing module (30) to **process** an input **multimedia** data based on a portion of multimedia application stored in an on-chip memory (32) to produce an output multimedia data. An on-chip DC-to-DC converter (26) converts a battery voltage into a supply voltage, which is provided to one of a multimedia module (24), a high-speed **interface** (28), the processing module, and the on-chip memory.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also **included** for a multiple function battery operated device with a battery-optimized system-on-a-chip.

USE - Used for a handheld device e.g. DVD player, CD player, MP3 player, AM/FM radio, personal digital assistant (PDA), digital still camera, **digital video** camera, pager, cellular telephone, and computer memory extension.

ADVANTAGE - The system-on-a-chip provides the supply voltage to one of the multimedia module, high-speed **interface**, processing module, and on-chip memory, thereby optimizing power consumption for **various applications** within a handheld battery operated device by requiring a minimal of external components, and providing flexible external memory interfacing.

DESCRIPTION OF DRAWING(S) - The drawing shows a schematic block diagram of a multiple function battery operated device that **includes** a battery-optimized system-on-a-chip.

Multimedia module (24)  
On-chip DC-to-DC converter (26)  
High-speed **interface** (28)  
Processing module (30)  
On-chip memory (32)  
pp; 19 DwgNo 1/8

Title Terms: BATTERY; OPTIMUM; SYSTEM; CHIP; DEVICE; PLAY; DC; DC;  
CONVERTER; CONVERT; BATTERY; VOLTAGE; SUPPLY; VOLTAGE; ONE; MODULE;  
**INTERFACE** ; PROCESS; MODULE; MEMORY

Derwent Class: T01; U24; W01; W04

International Patent Class (Main): G06F-017/50

File Segment: EPI

31/5/4 (Item 3 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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016155663 \*\*Image available\*\*

WPI Acc No: 2004-313550/200429

XRPX Acc No: N04-249614

Digital audio **data** processing **method** in digital data decoding **system**, involves **supplying mixed** digital audio **signal** in concurrent with supply of **unmixed** digital audio **signal** while enabling resampling of digital audio **stream**

Patent Assignee: INT BUSINESS MACHINES CORP (IBMC )

Inventor: CURLEY L D; DRIFTMYER J F; FOSTER E M

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No      Kind      Date      Applicat No      Kind      Date      Week  
US 6714826      B1      20040330      US 2000524461      A      20000313      200429      B

Priority Applications (No Type Date): US 2000524461 A 20000313

Patent Details:

Patent No      Kind      Lan Pg      Main IPC      Filing Notes  
US 6714826      B1      13      G06F-017/00

Abstract (Basic): US 6714826 B1

NOVELTY - The primary and secondary **digital audio** data streams are received from independent audio sources and the primary stream is output as unmixed **digital audio** signal. Both the digital streams are mixed, and output concurrent with output of unmixed signal, while enabling resampling of secondary stream based on sampling frequency of primary streams, if sampling frequencies of streams are different.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (1) **digital audio** data **processing** system; and
- (2) **digital audio** data **processing** program storage device.

USE - For **digital audio** data **processing** in **digital data** decoding system especially for **set - top - box ( STB )** system, in video telephony, teleconferencing applications, high quality digital television (TV) transmission on coaxial and fiber optic networks, broadcast terrestrially and other direct broadcast satellites, interactive multimedia products on compact disk-read only memory (CD-ROM), **digital audio** tape and Winchester disk drives.

ADVANTAGE - Message overlays are heard on a live broadcast but not recorded for future listening, by using simple technique. Minimizes data movement to/from memory while reducing bandwidth requirements by enabling usage of single **processor** that can pass location and attributes of data to decoder without need for any additional components.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of the audio decoding system implementing the digital processing facility **interfaces** for receiving.

pp; 13 DwgNo 2/5

Title Terms: DIGITAL; AUDIO; DATA; PROCESS; METHOD; DIGITAL; DATA; DECODE; SYSTEM; SUPPLY; MIX; DIGITAL; AUDIO; SIGNAL; CONCURRENT; SUPPLY; UNMIXED; DIGITAL; AUDIO; SIGNAL; ENABLE; DIGITAL; AUDIO; STREAM

Derwent Class: T01; W03; W04

International Patent Class (Main): G06F-017/00

File Segment: EPI

31/5/5      (Item 4 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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016088201      \*\*Image available\*\*

WPI Acc No: 2004-246076/200423

Related WPI Acc No: 2001-112027

XRPX Acc No: N04-195094

Connection **authentication method in wireless network, involves determining whether authentication information is correct, by processing advertisement of terminal network address and received authentication information**

Patent Assignee: NOKIA CORP (OYNO )

Inventor: ALA-LAURILA J; ASOKAN N; FLYKT P

Number of Countries: 001 / Number of Patents: 001

Patent Family:



Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6704789	B1	20040309	US 99303423	A	19990503	200423 B
			US 2000564635	A	20000503	

Priority Applications (No Type Date): US 2000564635 A 20000503; US 99303423 A 19990503

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 6704789	B1	12	G06F-015/16	CIP of application US 99303423

Abstract (Basic): US 6704789 B1

NOVELTY - An advertisement of **terminal** network address is transmitted from **server** (14) in internet service provider (ISP) network to user **terminal** (12) on request. Transmitted user data within authentication information stored in ISP network, is identified by the user. The user processes the received advertisement and the authentication to determine whether the authentication information is correct.

USE - For authenticating user **terminal** equipped with smart card to data networks such as packet data network, wireless LAN using dynamic **host** configuration **protocol** (DHCPv4, DHCPv6), also used for permitting telephone networks to sell internet service provider (ISP) network access to customers.

ADVANTAGE - Permits an easy and **secure** way to distribute the necessary secret key to the users to calculate subscriber identification module (SIM), by using smart cards which are tangible, **contains multiple** value added **applications** e.g. electronic cash, supports electronic signature.

DESCRIPTION OF DRAWING(S) - The figure shows the modification of the dynamic **host** configuration **protocol** version 4 (DHCPv4).

user **terminal** (12)  
**server** (14)  
 pp; 12 DwgNo 6/6

Title Terms: **CONNECT**; AUTHENTICITY; METHOD; WIRELESS; NETWORK; DETERMINE; AUTHENTICITY; INFORMATION; CORRECT; PROCESS; ADVERTISE; **TERMINAL**; NETWORK; ADDRESS; RECEIVE; AUTHENTICITY; INFORMATION

Derwent Class: T01; W01

International Patent Class (Main): G06F-015/16

File Segment: EPI

31/5/6 (Item 5 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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015863402 \*\*Image available\*\*

WPI Acc No: 2004-021233/200402

XRPX Acc No: N04-016295

**Video on demand delivery system** includes **wireless remote control device for generating keystroke signals, head-end unit for supporting separate downstream virtual channels, and set top unit for encapsulating the keystroke signals**

Patent Assignee: BARAN P (BARA-I); FIELD M (FIEL-I); LIN X D (LINX-I); PICKENS J (PICK-I)

Inventor: BARAN P; FIELD M; LIN X D; PICKENS J

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20030200548	A1	20031023	US 2001344283	P	20011227	200402 B
			US 2002382174	P	20020521	

Priority Applications (No Type Date): US 2002328868 A 20021223; US  
2001344283 P 20011227; US 2002382174 P 20020521

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes  
US 20030200548 A1 55 H04N-007/173 Provisional application US 2001344283

Provisional application US 2002382174

Abstract (Basic): US 20030200548 A1

NOVELTY - A video on demand delivery system **comprises** a wireless remote **control device** for generating keystroke signals, a head-end unit for supporting separate downstream virtual channels for each separate television (TV) set **connected** on a common TV feeder-cable, and a set top unit for encapsulating and transmitting the keystroke signals via a two-way channel to the head-end unit.

DETAILED DESCRIPTION - A video on demand delivery system **comprises** a wireless remote **control device** for generating keystroke signals for controlling TV display and having a single button for restarting a selected program at a beginning of the selected program; a head-end unit for supporting separate downstream virtual channels for each separate TV set **connected** on a common TV feeder-cable, with the head-end unit locally recording and storing **many programs**, and transmitting each program using a compressed digital format; and a set top unit for encapsulating the keystroke signals and transmitting the keystroke signals via a two-way channel to the head-end unit. The head-end unit **includes** mechanism for protecting against signal theft. INDEPENDENT CLAIMS are also **included** for:

(a) a video system for providing a large number of video streams, as required in Retrovue, **comprising** dividing mechanism for dividing input video-streams entering the video system and for sending the divided input video-streams, with each divided video stream identified with a separate Ethernet address to a video **server**; a **switch** at the video **server** for routing an appropriate input video-stream to an appropriate disk drive;

(b) a video method for providing video streams using the above system;

(c) a high density radio frequency (RF) generation and quadrature-amplitude-modulated (QAM) system for a multichannel digital TV system, **comprising** signal-generating mechanism for generating above a 50-860 MHz, TV band to avoid spurious signals within the 50-860 Mhz, TV band, a multiplicity of agile signals at any of 6 MHz and 8 MHz spacing; modulating mechanism for separately modulating each agile signal with digital modulation; low-pass filter for low-pass filtering the multiplicity of digitally-modulated signals; first combining mechanism for combining the digitally-modulated signals into ensembles of 4, 8 or 16 digitally-modulated signals; heterodyning mechanism for heterodyning with a common oscillator, each ensemble to the 50-860 MHz, TV band; second combining mechanism for combining the heterodyned ensembles into groupings; and distribution mechanism for distributing portions of the groupings of digitally-modulated signals to multiple TV distribution zones;

(d) a cable method for delivering digital programming, **comprising** assigning digital streams to set-top units on digitally-modulated carrier signals; dynamically transmitting commands to tune and select a particular digital stream requested by a particular set-top unit; signaling, on a reverse-path, out-of-band channel, between the head end and each of set-top unit; and communicating, using separate, **secure** two-way communications **links**, from each of the set-top units to the

head end; and

(e) construction arrangement for a small set-top unit to protect **cryptographic** capabilities and prevent a digital program in clear from being tapped as required by Digital Rights Management **protocols**, **comprising**: a first layer of sheet metal capable of blocking X-rays, formed as a shallow pan to hold a set of printed circuit boards; a second layer having a thin epoxy based printed circuit material; a third layer having a printed circuit board with integrated components placed on top of the second layer; a fourth layer having a three layer thin printed circuit board with a first and second metallic layer and holes for large components, such as electrolytic capacitors; a black liquid thermosetting epoxy filling the interstices between the sheet metal layer and the second layer, and between the second and third layers, and between the third layer and the fourth layer; and a **connection** from the first metallic layer of the fourth printed circuit material layer to a sending circuit and a **connection** from the second metallic layer.

The appropriate disk drive replays the appropriate input video-stream and controls portions of the appropriate input video-stream at an appropriate time, through the **switch**, thus avoiding a single bottleneck of a central processing unit (CPU) and random access memory and allowing a video- **server** having CPU's to work in parallel to produce a much video streams.

USE - For the delivery of a video on demand, e.g. video stream, by generating keystroke signals, restarting a selected program, supporting separate downstream virtual channels, recording and storing programs, transmitting the programs, protecting against signal theft, encapsulating the keystroke signals, and transmitting the keystroke signal to the head-end unit (claimed).

ADVANTAGE - The invention delivers new services that are not viable with satellite to a viewer at a cost much less than that of current per-household costs, including **set - top boxes** and head-end infrastructure. It uses existing plant without change and co-exists with currently deployed cable system elements.

DESCRIPTION OF DRAWING(S) - The figure shows a system-configuration block diagram.

pp; 55 DwgNo 1/54

Title Terms: VIDEO; DEMAND; DELIVER; SYSTEM; WIRELESS; REMOTE; CONTROL; DEVICE; GENERATE; SIGNAL; HEAD; END; UNIT; SUPPORT; SEPARATE; DOWNSTREAM; VIRTUAL; CHANNEL; SET; TOP; UNIT; ENCAPSULATE; SIGNAL  
Derwent Class: U21; W01; W02; W03  
International Patent Class (Main): H04N-007/173  
International Patent Class (Additional): G06F-003/00 ; G06F-013/00 ; H04N-005/44; H04N-005/445; H04N-007/16  
File Segment: EPI

31/5/7 (Item 6 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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015834379 \*\*Image available\*\*

WPI Acc No: 2003-896583/200382

XRPX Acc No: N03-715491

Server for electronic business, has rule sets that control packets communicated by applications on each of the sockets in associated socket set

Patent Assignee: BARZILAI T P (BARZ-I); ENGEL R (ENGE-I); KANDLUR D D

(KAND-I); MEHRA A (MEHR-I); INT BUSINESS MACHINES CORP (IBMC )

Inventor: BARZILAI T P; ENGEL R; KANDLUR D D; MEHRA A

Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20030005144	A1	20030102	US 98181376	A	19981028	200382 B
US 6519636	B2	20030211	US 98181376	A	19981028	200382

Priority Applications (No Type Date): US 98181376 A 19981028

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 20030005144	A1	22	G06F-015/173	
US 6519636	B2		G06F-015/173	

Abstract (Basic): US 20030005144 A1

NOVELTY - Several CPUs execute applications each of which use sockets connected to networks, for communicating over networks. Each of the socket sets is associated with only one of the rule sets. The rules sets control the packets communicated by applications on each of the sockets in the associated socket set.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(1) information verification method executed by computer system; and

(2) computer connected through connection on one or more network interfaces to several networks.

USE - Server for electronic business connected to Internet using devices such as thin clients, handheld devices e.g. palmpilot and smart cellular telephone, set-top boxes and web appliances e.g. personal computer, laptop/notebook computer, network computer.

ADVANTAGE - Enhances network transmission over a non-trusted network with security features. Efficiently controls and manipulates packets sent to network. Provides better quality to an end-to-end Internet media transmission between two points connected by packet switching networks.

DESCRIPTION OF DRAWING(S) - The figure shows the flow diagram of the server operation.

pp; 22 DwgNo 4/9

Title Terms: SERVE; ELECTRONIC; BUSINESS; RULE; SET; CONTROL; PACKET; COMMUNICATE; APPLY; SOCKET; ASSOCIATE; SOCKET; SET

Derwent Class: T01; W01

International Patent Class (Main): G06F-015/173

International Patent Class (Additional): G06F-015/16

File Segment: EPI

31/5/8 (Item 7 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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015802184 \*\*Image available\*\*

WPI Acc No: 2003-864387/200380

XRPX Acc No: N03-689999

Object monitoring and management system for use in paperless management and tracking of physical assets, comprises central database, data access permitting unit, portable unit, and information subset synchronizing unit

Patent Assignee: HOTBUTTON SOLUTIONS INC (HOTB-N); CHESTNUT W (CHES-I); GLENDON J (GLEN-I)

Inventor: CHESTNUT W; GLENDON J

Number of Countries: 103 Number of Patents: 003

Patent Family:

Server back end (244)  
Embedded database. (246)  
pp; 17 DwgNo 8/8  
Title Terms: DIRECTORY; SERVE; SYSTEM; GLOBE; DIRECTORY; SERVICE; FRONT;  
MAP; TREE; PORTION; IDENTIFY; LOCATE; INFORMATION; STORAGE; BACK; END;  
PORTION; RESPOND; REQUEST; SEND; ~~CLIENT~~ ; ~~COMPUTER~~  
Derwent Class: T01  
International Patent Class (Main): G06F-015/173 ; G06F-017/30  
File Segment: EPI

31/5/12 (Item 11 from file: 350)  
DIALOG(R) File 350:Derwent WPIX  
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015424442 \*\*Image available\*\*  
WPI Acc No: 2003-486584/200346  
XRPX Acc No: N03-386911

Image printer has RAM for storing digital video packet taken in  
arbitrary timing from input image data and engine interface for  
producing output signal of still picture to be printed

Patent Assignee: SONY CORP (SONY )  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2003061040	A	20030228	JP 2001376942	A	20011211	200346 B

Priority Applications (No Type Date): JP 2001170127 A 20010605

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 2003061040	A	46	H04N-005/91	

Abstract (Basic): JP 2003061040 A

NOVELTY - A RAM (13) stores the digital video packet taken in  
at arbitrary timing from the input image data. An NTSC encoder (16)  
decodes the received digital video frame and transmits a display  
signal to an NTSC system. An engine interface (17) generates an  
output signal of still pictures to be printed and supplies it to a  
print engine through a terminal (23).

DETAILED DESCRIPTION & INDEPENDENT CLAIMS are also included for the  
following:

- (1) image printing method;
- (2) image processor ; and
- (3) image processing method.

USE - Image printer.

ADVANTAGE - Allows the image currently stored on a RAM to be  
printed automatically.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of  
the image printer. (Drawing includes non-English language text).

RAM (13)

NTSC encoder (16)

engine interface (17)

terminal (23)

pp; 46 DwgNo 2/41

Title Terms: IMAGE; PRINT; RAM; STORAGE; DIGITAL; VIDEO; PACKET; ARBITRARY;  
TIME; INPUT; IMAGE; DATA; ENGINE; INTERFACE ; PRODUCE; OUTPUT; SIGNAL;  
STILL; PICTURE; PRINT

Derwent Class: P75; T01; T04; W04

International Patent Class (Main): H04N-005/91

International Patent Class (Additional): B41J-005/30; G06F-003/12 ;

H04N-005/76  
File Segment: EPI; EngPI

31/5/13 (Item 12 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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015406861 \*\*Image available\*\*  
WPI Acc No: 2003-469002/200344  
XRPX Acc No: N03-373226

**Software program or system conversion method, for protecting computers and servers connected to large networks and making them resistant to automated attacks**

Patent Assignee: CLOAKWARE CORP (CLOA-N); JOHNSON H T (JOHN-I)  
Inventor: CHOW S T; GU Y X; JOHNSON H T; MAIN A; ACHIM M; GU Y; JOHNSON H  
Number of Countries: 102 Number of Patents: 003  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200346698	A1	20030605	WO 2002CA1806	A	20021126	200344 B
CA 2363795	A1	20030526	CA 2363795	A	20011126	200347
AU 2002349217	A1	20030610	AU 2002349217	A	20021126	200419

Priority Applications (No Type Date): CA 2363795 A 20011126

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
WO 200346698	A1	E	36 G06F-001/00	

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA  
CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN  
IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ  
OM PH PL PT RO RU SC SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ VC  
VN YU ZA ZM ZW

Designated States (Regional): AT BE BG CH CY CZ DE DK EA EE ES FI FR GB  
GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SK SL SZ TR TZ UG ZM ZW

CA 2363795	A1	E	G06F-012/14	
AU 2002349217	A1		G06F-001/00	Based on patent WO 200346698

Abstract (Basic): WO 200346698 A1

NOVELTY - The method provides protection through diversity using tamper resistant software (TRS) **encoding** techniques to protect software against attacks, by applying TRS **encoding** techniques to focus on the communications that take place between software components, with corresponding changes to the code handling the communications e.g. data passed between software routines via parameters or mutually accessible variables, lightweight messages, signals and semaphores passed between threads etc.

DETAILED DESCRIPTION - The method for converting a software program or system including **multiple programs or applications**, into a form in which it is resistant to automated attacks involves identifying communications within the program or system, and applying tamper resistant **encoding** techniques on the lines of code of the program which effect the identified communications. The tamper resistant **encoding** varies from one instance of the software program or system to another. INDEPENDENT CLAIMS are **included** for; a method for protecting **computer** programs; a **computer** -readable memory medium storing code executable to perform the method; a carrier signal incorporating code to execute the method.

USE - **Secure computer** protection from e.g. viruses, worm programs etc. using protection through diversity in **personal computers**, personal digital assistants, laptop **computers**, networks

and system components e.g. **servers , routers , gateways** etc. In appliances having **computer** or **processor** control e.g. telephones, televisions, TV set-top units, point of sale **computers** , automatic banking machines, automobiles etc.

ADVANTAGE - Protects **computers** and **servers** connected to large networks and makes them resistant to automated attacks.

DESCRIPTION OF DRAWING(S) - The drawing shows an exemplary block diagram of communication paths between software routines and data registers.

Application threads (40)  
Application processes (42)  
Operating system threads (44)  
Hardware devices and drivers (46)  
Memory (48)  
Printer drivers (50)  
pp; 36 DwgNo 2/4

Title Terms: SOFTWARE; PROGRAM; SYSTEM; CONVERT; METHOD; PROTECT; **COMPUTER**  
; SERVE; **CONNECT** ; NETWORK; RESISTANCE; AUTOMATIC; ATTACK

Derwent Class: T01

International Patent Class (Main): G06F-001/00 ; G06F-012/14

File Segment: EPI

31/5/14 (Item 13 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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014867862 \*\*Image available\*\*

WPI Acc No: 2002-688568/200274

**System and method for offering on-line search service**

Patent Assignee: CHON S J (CHON-I); CHUN J H (CHUN-I)

Inventor: CHON S J; CHUN J H

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
KR 2002037917	A	20020523	KR 200067906	A	20001116	200274 B

Priority Applications (No Type Date): KR 200067906 A 20001116

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
KR 2002037917	A	1	G06F-017/30	

Abstract (Basic): KR 2002037917 A

NOVELTY - A system and a method for offering an on-line search service are provided to prevent the leakage of the internal information of a **client** company and to reduce the economical load of a customer by removing the need for an individual search engine and by receiving a document summary file and index information from the company.

DETAILED DESCRIPTION - The system(300) is **connected** with a **client** company **computer** system(100) including a **host computer** (120) to receive and store an index generation **program** (130) and many **client computers** (110) via a network. The system **includes** a network **interface** (310), a program providing unit(320), an index information processing unit(330), a query analyzing unit(340), an index information search unit(350), and an index information storage(350). The **host computer** and the **client computers** of the **client** company **computer** system are equipped with a **security** device such as a firewall, an SSL( **Secure** Socket Layer), a DES(Data **Encryption** Standard), or an RSA(Rivest, Shamir, Adleman). Although the index information is exposed, the leakage of an original copy is prevented.

pp; 1 DwgNo 1/10  
Title Terms: SYSTEM; METHOD; OFFER; LINE; SEARCH; SERVICE  
Derwent Class: T01  
International Patent Class (Main): G06F-017/30  
File Segment: EPI

31/5/15 (Item 14 from file: 350)

DIALOG(R) File 350:Derwent WPIX  
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014402258 \*\*Image available\*\*

WPI Acc No: 2002-222961/200228

**System for realizing visible and audible e-mail on the internet and operating method thereof**

Patent Assignee: LOU C Y (LOUC-I)

Inventor: LOU C Y

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
KR 2001096681	A	20011108	KR 200142519	A	20010713	200228 B

Priority Applications (No Type Date): KR 200142519 A 20010713

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
KR 2001096681	A	1	G06F-017/60	

Abstract (Basic): KR 2001096681 A

NOVELTY - A system for realizing a visible and audible E-mail on the Internet and an operating method thereof are provided to improve a function of a current E-mail by storing and playing a video and an audio in real time through the E-mail, and achieve an effective communication of the E-mail used all over the world.

DETAILED DESCRIPTION - A **client** system transmits a video and an audio to a **server** in real time. A mail **server** processes the video and the audio data transmitted from the **client**. A mail **interface** (S1) transmits the video and the audio in real time. A mail **interface** (S1) **connects** various data through a control module(S3). A DB module(S2) controls a DB **server** and an image DB **server** and stores the **client** 's mail data. A management **module** (S4) manages **various modules included** in the mail **server** and the **client**. A **security** module(S5) protects the DB **server** and the image DB **server** from an external access and backups the data in a backup serve(BS). The control module(S3) controls the DB module, the management module(S4) and the **security** module(S5), and **connects** with the mail **interface** (S1).

pp; 1 DwgNo 1/10

Title Terms: SYSTEM; REALISE; VISIBLE; AUDIBLE; MAIL; OPERATE; METHOD  
Derwent Class: T01  
International Patent Class (Main): G06F-017/60  
File Segment: EPI

31/5/16 (Item 15 from file: 350)

DIALOG(R) File 350:Derwent WPIX  
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014178401 \*\*Image available\*\*

WPI Acc No: 2001-662629/200176

Related WPI Acc No: 2000-182772; 2001-570444; 2001-596503; 2001-656565;  
2002-434471; 2002-697486; 2003-090923



INDEPENDENT CLAIMS are **included** for the following:

- (a) a **computer** implemented method for maintaining data in distributed database;
- (b) a self-updating **computer** implemented database system;
- (c) an information system for maintaining **computerized** records.

USE - For maintaining medical records.

ADVANTAGE - Transmits data selectively to required location, thereby improving data processing efficiency and reducing frequency of communication between POS station and **switching** station. Provides data **security** as update object persists in critical locations throughout network until it is **included** in required database, thereby eliminating need for reliable telecommunication network.

DESCRIPTION OF DRAWING(S) - The figure shows block diagram illustrating principal subsystems employed in PDC, POS, **switching** station and administrative service system.

pp; 28 DwgNo 6/12

Title Terms: **COMPUTER** ; SYSTEM; MAINTAIN; MEDICAL; RECORD

Derwent Class: T01

International Patent Class (Main): **G06F-017/30**

File Segment: EPI

**31/5/20 (Item 19 from file: 350)**

DIALOG(R)File 350:Derwent WPIX

(c) 2004 Thomson Derwent. All rts. reserv.

012264905 \*\*Image available\*\*

WPI Acc No: 1999-071011/199906

XRPX Acc No: N99-051913

**Combined video processing /peripheral interface card - has bridge circuit to allow peripheral interface controller and video processor circuit to share same connection to local computer bus**

Patent Assignee: IOMEGA CORP (IOME-N)

Inventor: DEARDEN G W; DOMENGEAUX E M; DOYEN T; FLYNN E M; JOLLEY D L; STEPHENSON J B

Number of Countries: 022 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9858498	A1	19981223	WO 98US11894	A	19980610	199906 B
US 6134613	A	20001017	US 97876560	A	19970616	200054

Priority Applications (No Type Date): US 97876560 A 19970616

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 9858498 A1 E 15 H04N-007/26

Designated States (National): CA JP SG

Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

US 6134613 A G06F-013/00

Abstract (Basic): WO 9858498 A

A bus card (10) combines both video **processor** functions and peripheral **interface** control functions in a single card, designed for connection to a peripheral component **interface** (PCI) bus of a **personal computer** or **workstation** and includes a PCI bus connector (28) for connection to a PCI bus slot. The card further comprises video **processor** circuitry (15) with a video decoder (14), a video **encoder** (16), a video compression/decompression circuit (18) and a multimedia controller (20).

A series of video connections (12) allows connection of such as

camcorders, cameras, displays etc. and includes RCA in/out for composition video and S-video in/out. The decoder converts analogue video signals into digital, transmitted via an **interface** bus to the other units. The card also comprises a peripheral **interface** controller for connection of peripheral devices such as removable cartridge disc drive. Video data may be passed either through a controller (24) for storage or through a **bridge** chip (26) and a connector (28) to a **personal computer**.

USE - Combination of **video processing** and peripheral **interface** control on 1 bus card

ADVANTAGE - Easy input/output processing, capture and storage of **digital video** information

Dwg.1/1

Title Terms: COMBINATION; VIDEO; PROCESS; PERIPHERAL; **INTERFACE** ; CARD; **BRIDGE** ; CIRCUIT; ALLOW; PERIPHERAL; **INTERFACE** ; CONTROL; VIDEO; **PROCESSOR** ; CIRCUIT; SHARE; CONNECT; LOCAL; **COMPUTER** ; BUS

Derwent Class: T01; W02

International Patent Class (Main): **G06F-013/00** ; H04N-007/26

International Patent Class (Additional): **G06F-013/40**

File Segment: EPI

31/5/21 (Item 20 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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012205925 \*\*Image available\*\*

WPI Acc No: 1999-012031/199902

XRPX Acc No: N99-009116

**Distributed network computing system e.g. for personal computers - has data exchange unit arranged in server with service data provide as application service converted into predetermined format on basis of attribute data of terminal as communication partner and is transmitted**

Patent Assignee: TOSHIBA KK (TOKE )

Inventor: UTSUMI M

Number of Countries: 027 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 883270	A1	19981209	EP 98109654	A	19980527	199902 B
JP 11073398	A	19990316	JP 97364181	A	19971217	199921
US 6195677	B1	20010227	US 9888675	A	19980602	200114

Priority Applications (No Type Date): JP 97364181 A 19971217; JP 97160570 A 19970603; JP 97165772 A 19970623

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
EP 883270	A1	E	83 H04L-029/06	

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI

JP 11073398 A 45 G06F-015/16

US 6195677 B1 H04K-003/00

Abstract (Basic): EP 883270 A

The system **comprises** a data processing unit (20) to provide an **application** service of **various application** software. A **terminal** receives the application service from the data processing unit. A communication network (30, 50) **connects** the data processing unit and the **terminal**. The system **includes** a network **connector** (70) for **connecting** networks to each other and a data exchange unit (10, 71) provided at the network **connector** and in that the data exchange unit

An analog system chip (114) connected to the digital system chip, receives the **digital data** from the digital system chip and **comprises** digital to analog conversion logic and analog to digital conversion logic, a video port connected to digital to analog conversion logic and an audio port connected to the digital to analog conversion logic. The video port is adapted for coupling to a video monitor (132). The audio port is adapted for transferring audio data to external speakers (134). The analog system chip **includes** only analog circuitry for performing digital to analog and analog to digital conversions. The digital system chip **includes** only digital circuitry.

USE - For **processing video** accelerator cards, audio cards, telephony cards, SCSI **adapter**, network **interface** card. For non-real time business applications such as word processing and/or for spread sheet application.

ADVANTAGE - Optimises silicon use and design by splitting up digital and analog functions on separate chips. Facilitates separation of digital noise from analog noise thereby allows higher degree of interaction with high stability.

Dwg.5/11

Title Terms: PERSON; COMPUTER; SYSTEM; DIGITAL; ANALOGUE; CONFIGURATION; REAL; TIME; COMMUNICATE; APPLY; DIGITAL; SYSTEM; CHIP; CONNECT; CHIP; SET ; LOGIC; ANALOGUE; SYSTEM; CHIP; PROCESS; DATA

Derwent Class: T01

International Patent Class (Main): G06F-015/00

File Segment: EPI

31/5/23 (Item 22 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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011332549 \*\*Image available\*\*

WPI Acc No: 1997-310453/199728

Related WPI Acc No: 2000-115698; 2001-315782; 2001-449946; 2001-463374

XRPX Acc No: N97-257205

**General purpose multiple CPU computer system for vehicle - has computer supporting open platforms housed in stationary base unit with disc drives and second computer as portable RF device**

Patent Assignee: MICROSOFT CORP (MICT )

Inventor: BECKERT R D; MOELLER M M; WONG W; WONG W S

Number of Countries: 021 Number of Patents: 014

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9719833	A2	19970605	WO 96US19075	A	19961127	199728 B
AU 9711259	A	19970619	AU 9711259	A	19961127	199741
WO 9719833	A3	19970724				199745
EP 804351	A1	19971105	EP 96942096	A	19961127	199749
			WO 96US19075	A	19961127	
AU 691434	B	19980514	AU 9711259	A	19961127	199831
US 5794164	A	19980811	US 95564586	A	19951129	199839
AU 9878528	A	19981001	AU 9878528	A	19980728	199851
			AU 9711259	A		
JP 11500084	W	19990106	WO 96US19075	A	19961127	199911
			JP 97520696	A	19961127	
AU 718236	B	20000413	AU 9711259	A	19961127	200028
			AU 9878528	A	19980728	
AU 200014956	A	20000601	AU 9878528	A	19980728	200035 N
			AU 200014956	A	20000207	
AU 757620	B	20030227	AU 9878528	A	19980728	200321 N
			AU 200014956	A	20000207	

EP 804351	B1	20030827	EP 96942096	A	19961127	200358
			WO 96US19075	A	19961127	
			EP 200376562	A	19961127	
DE 69629663	E	20031002	DE 629663	A	19961127	200372
			EP 96942096	A	19961127	
			WO 96US19075	A	19961127	
EP 1376882	A2	20040102	EP 96942096	A	19961127	200409
			EP 200376562	A	19961127	

Priority Applications (No Type Date): US 95564586 A 19951129; AU 200014956 A 20000207

Cited Patents: DE 4437408; US 4194585; US 4731769; US 5150609; US 5313200; WO 8404499; No-SR.Pub

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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WO 9719833	A2	E	39	B60R-016/00	
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Designated States (National): AU CA JP

Designated States (Regional): AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE

AU 9711259	A				Based on patent WO 9719833
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EP 804351	A1	E			Based on patent WO 9719833
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Designated States (Regional): DE FR GB

AU 691434	B				Previous Publ. patent AU 9711259
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Based on patent WO 9719833

US 5794164	A			G06F-019/00	
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AU 9878528	A			H04B-007/00	
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Div ex application AU 9711259

JP 11500084	W		47	B60R-016/02	
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Based on patent WO 9719833

AU 718236	B			B60R-016/02	
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Div ex application AU 9711259

Div ex patent AU 691434

Previous Publ. patent AU 9878528

AU 200014956	A			G06F-017/00	
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Div ex application AU 9878528

Div ex patent AU 718236

AU 757620	B			G06F-017/00	
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Div ex application AU 9878528

Previous Publ. patent AU 200014956

Div ex patent AU 718236

EP 804351	B1	E		B60R-016/02	
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Related to application EP 200376562

Based on patent WO 9719833

Designated States (Regional): DE FR GB

DE 69629663	E			B60R-016/02	
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Based on patent EP 804351

Based on patent WO 9719833

EP 1376882	A2	E		H04B-001/08	
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Div ex application EP 96942096

Div ex patent EP 804351

Designated States (Regional): DE FR GB

Abstract (Basic): WO 9719833 A

The vehicle has a **computer** system (20) with a centralised **computer** (22) **connected** to various devices. These **include** a monitor (24), **security** sensors (26), diagnostic **interface** (30) and antenna (34). This **computer** is housed in a unit that mounts in a vehicle dashboard, e.g. similar to a car radio. The **computer** also has one or more disc drive units (40). The **computer** runs an open operating platform supporting **multiple applications**.

A faceplate unit (60) provides a keypad and display for the system. It **contains** a digital signal **processor** and an AM/FM tuner. This **processor** operates as a slave to the main **processor**. The faceplate unit may also be a cellular radio.

ADVANTAGE - Provides integrated **computer** platform for operating or adding multiple separate functions.

Dwg.1/8

Title Terms: GENERAL; PURPOSE; MULTIPLE; CPU; **COMPUTER** ; SYSTEM; VEHICLE;

COMPUTER ; SUPPORT; OPEN; PLATFORM; HOUSE; STATIONARY; BASE; UNIT; DISC;  
DRIVE; SECOND; COMPUTER ; PORTABLE; RF; DEVICE  
Derwent Class: Q17; T01; W03; W05; X22  
International Patent Class (Main): B60R-016/00; B60R-016/02; G06F-017/00 ;  
G06F-019/00 ; H04B-001/08; H04B-007/00  
International Patent Class (Additional): G06F-001/16 ; H04L-012/00  
File Segment: EPI; EngPI

31/5/24 (Item 23 from file: 350)

DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

011294388 \*\*Image available\*\*  
WPI Acc No: 1997-272293/199724  
XRPX Acc No: N97-225594

Communications system allowing clients to subscriber to value added  
network - has several clients , value added network, public  
communications network, & direct dialup network, clients are allowed to  
selectively communicate with value added network via either direct or  
public communications networks

Patent Assignee: STERLING COMMERCE INC (STER-N)  
Inventor: HAFNER E A; ROHRER T H  
Number of Countries: 073 Number of Patents: 005  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9716793	A1	19970509	WO 96US17456	A	19961101	199724 B
AU 9676009	A	19970522	AU 9676009	A	19961101	199739
NO 9801979	A	19980702	WO 96US17456	A	19961101	199836
			NO 981979	A	19980430	
EP 870252	A1	19981014	EP 96938695	A	19961101	199845
			WO 96US17456	A	19961101	
BR 9611143	A	19991228	BR 9611143	A	19961101	200018
			WO 96US17456	A	19961101	

Priority Applications (No Type Date): US 95552923 A 19951103  
Cited Patents: 3.Jnl.Ref; US 5517622; US 5528757; US 5530852; US 5557780;  
US 5561769

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 9716793	A1	E	18	G06F-017/00	

Designated States (National): AL AM AT AU AZ BA BB BG BR BY CA CH CN CU  
CZ DE DK EE ES FI GB GE HU IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV  
MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK TJ TM TR TT UA UG UZ  
VN

Designated States (Regional): AT BE CH DE DK EA ES FI FR GB GR IE IT KE  
LS LU MC MW NL OA PT SD SE SZ UG

BR 9611143	A		G06F-017/00	Based on patent WO 9716793
AU 9676009	A		G06F-017/00	Based on patent WO 9716793
EP 870252	A1	E	G06F-017/00	Based on patent WO 9716793
			Designated States (Regional): BE DK GB LU NL SE	
NO 9801979	A		H04L-000/00	

Abstract (Basic): WO 9716793 A

The system includes one or more clients (20), a value added  
network (90), a public communications network and a direct dialup  
network (70). The clients are allowed to selectively communicate with  
the value added network through either the direct network or the public  
communications network (60).

The value added network comprises multiple applications

programs remotely accessed by one or more of the clients , and several servers linked through an Ethernet connection . The public communications network could be the Internet, and the dialup connection an X.25 network. Communication between the client and the value added network is in the form of point to point protocol .

USE - For allowing flexible access and multitasking capabilities to value added networks.

ADVANTAGE - Provides cost efficient, secure and flexible data exchange between clients and applications which they access on remote server , and allow clients to operate multiple sessions via single communications connection to server .

Dwg.1/3

Title Terms: COMMUNICATE; SYSTEM; ALLOW; CLIENT ; SUBSCRIBER; VALUE; ADD; NETWORK; CLIENT ; VALUE; ADD; NETWORK; PUBLIC; COMMUNICATE; NETWORK; DIRECT; NETWORK; CLIENT ; ALLOW; SELECT; COMMUNICATE; VALUE; ADD; NETWORK; DIRECT; PUBLIC; COMMUNICATE; NETWORK

Derwent Class: T01

International Patent Class (Main): G06F-017/00 ; H04L-000/00

File Segment: EPI

31/5/25 (Item 24 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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010383638 \*\*Image available\*\*

WPI Acc No: 1995-284952/199538

XRPX Acc No: N95-216958

Computing system for parallel processing of data - has co-executors which respond to requests from processors for executing off loaded functions

Patent Assignee: INT BUSINESS MACHINES CORP (IBMC ); IBM CORP (IBMC )

Inventor: BAUM R I; BRENT G A; GHAFIR H M; IYER B R; NARANG I S; RAO G S;

SCALZI C A; SHARMA S P; SINHA B; WILSON L H

Number of Countries: 006 Number of Patents: 006

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 668560	A2	19950823	EP 95100549	A	19950117	199538 B
CA 2137488	A	19950819	CA 2137488	A	19941207	199545
JP 7239783	A	19950912	JP 94313714	A	19941216	199545
EP 668560	A3	19961106	EP 95100549	A	19950117	199651
US 5655146	A	19970805	US 94199041	A	19940218	199737
			US 95474925	A	19950607	
			US 96680069	A	19960712	
CA 2137488	C	19980929	CA 2137488	A	19941207	199849

Priority Applications (No Type Date): US 94199041 A 19940218; US 95474925 A 19950607; US 96680069 A 19960712

Cited Patents: No-SR.Pub; 3.Jnl.Ref; EP 521486

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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EP 668560	A2	E	38	G06F-009/46	
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Designated States (Regional): DE FR GB

JP 7239783	A		31	G06F-009/38	
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US 5655146	A		32	G06F-013/12	
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Cont of application US 94199041

Cont of application US 95474925

CA 2137488	A			G06F-009/28	
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EP 668560	A3			G06F-009/46	
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CA 2137488	C			G06F-009/28	
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Abstract (Basic): EP 668560 A

Set	Items	Description
S1	6	INTELLIGENT()MEDIA()ROUTER? OR IMR
S2	15945	GATEWAY? OR ROUTER? OR NODE? ? OR BRIDGE? OR SWITCH? OR INTERFACE? OR PROTOCOL? OR ADAPTER? OR CONTROL()DEVICE? OR MULTIPLAYER? OR REPEATER? ? OR HUB OR HUBS
S3	3134	(PROCESS OR PROCESSING OR PREPARE? OR PREPARING OR MAKE? OR MAKES OR READY? OR READIES)(2N)(MEDIA OR MULTIMEDIA OR MULTI-MEDIA OR VIDEO OR AUDIO? OR SOUND? OR VOICE OR IMAGE?)
S4	2445	(DIGITAL OR ELECTRONIC? OR DIGITIZED)()(DATA OR MUSIC OR AUDIO OR SONG? OR (HARMONIOUS OR VOCAL OR INSTRUMENT?)(SOUND? OR MULTIMEDIA OR MEDIA OR VIDEO OR AUDIO? OR SOUND?)
S5	22904	COMPRIS? OR INCLUDE? OR CONTAIN?
S6	24664	PLURAL? OR MULTIPL? OR VARIOUS OR SEVERAL OR MANY OR NUMEROUS
S7	38789	MODULE? ? OR ENGINE? OR COMPONENT? ? OR ELEMENT? ? OR ROUTINE? OR APPLICATION? OR PROGRAM? OR DATABASE? OR DATA()BASE?
S8	14977	INTERCONNECT? OR CONNECT? OR LINK? OR CORRELATION? OR RELATION? OR LINK? OR LINKAGE? OR RELATIONSHIP?
S9	11879	TRUSTED OR SECUR? OR CONFIDENCE OR ASSURANCE OR SURETY OR APPROV?
S10	10802	ENCOD??? OR CIPHER? OR CYPHER? OR ENCRYPT? OR CRYPTO? OR SECUR???
S11	15902	SERVER? OR PROCESSOR? OR REPOSITORY? OR HOST?
S12	23635	CLIENT? OR TERMINAL? OR COMPUTER? OR PC OR PERSONAL()COMPUTER? OR WORKSTATION? OR WORK()STATION? OR NODE? OR STAND()ALONE? OR STANDALONE?
S13	1532	SET()TOP()BOX? OR SETTOP()BOX? OR STB? ? OR INTEGRATED()PC-TV OR GATEWAY OR INTERACTIVE()(TERMINAL OR DEVICE?) OR ENTERTAINMENT()(APPLIANCE? OR SYSTEM?) OR MP3 OR TARGET()DEVICE? - OR MEDIA()PLAYER? OR MEDIAPLAYER?
S14	1586	(THIRD OR 3RD OR OUTSIDE OR OUT()SIDE OR TRUSTED OR SUBMITTING)()(PARTY OR PARTIES OR AGENT?)
S15	15950	S1 OR S2
S16	353	S15 AND S3 AND S4
S17	465	S15 AND S5 AND (S6 (2N) S7)
S18	29	S17 AND S8 AND S9
S19	2886	S10 AND S11 AND S12
S20	297	S10 AND S11 AND S13
S21	2959	S19 OR S20
S22	0	S16 AND S17 AND S18 AND S21
S23	0	S16 AND S18
S24	6	S16 AND S17
S25	2	S16 AND S21
S26	29	S17 AND S18
S27	12	S26 AND S21
S28	31	S18 OR S25 OR S26 OR S27
S29	30	S28 NOT PY>2003
S30	28	S29 NOT PD>20030407

File 256:TecInfoSource 82-2004/Jul  
(c)2004 Info.Sources Inc

ONE Portal **Server** , which provides embedded identity management capabilities, and Sun ONE Portal **Server** 6.0 will be constructed atop Sun's Identity **Server** , which **links** to Sun Directory **Server** . A spokesperson for Sun says the business wants to manage users more effectively through the use of Lightweight Directory Access **Protocol** (LDAP), which offers a sole, universal **repository** that can be used for all applications. A primary benefit of melding identity management and portals is creation of one administration console. Delegated Management identity management will e added to Netegrity's Interaction **Server** , which **includes** built-in **security** and access control abilities based on Netegrity's SiteMinder. A spokesperson for Netegrity says customers want ID management tools in the portal because of the rising cost of integrating best-of-breed solutions from multiple vendors. She also points out that ID management is critical for a portal because it offers one identity for a user who has multiple access points over **various applications** .

COMPANY NAME: Sun Microsystems Inc (385557); Netegrity Inc (627895);  
**Computer** Associates International Inc (081957)  
DESCRIPTORS: **Computer Security** ; Internet **Security** ; Network  
Administration; Network Software; Portals; Remote Network Access; Sun  
Java System; System Monitoring; Web Services  
REVISION DATE: 20021130

30/5/20

DIALOG(R)File 256:TecInfoSource  
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00137705 DOCUMENT TYPE: Review

PRODUCT NAMES: Cable Television (836231); Home Automation (842494)

TITLE: Next-generation home nets could spell IT trouble

AUTHOR: Kistner, Toni

SOURCE: Network World, v19 n10 p32(1) Mar 11, 2002

ISSN: 0887-7661

HOME PAGE: <http://www.nwfusion.com>

RECORD TYPE: Review

REVIEW TYPE: Product Analysis

GRADE: Product Analysis, No Rating

New home network technology based on cable TV **settop boxes** could mean new challenges for IT network executives responsible for supporting and **securing** corporate home offices. Ucentric Systems, is one of **several application** development startups building advanced **settop boxes** that will permit cable services distribute media over networked TVs, PCs, and stereos. Ucentric will provide a **client / server** application framework that serves up content and a suite of entertainment and communications applications. Ucentric's reference design is being licensed to hardware makers and **includes** a media **server** that attaches to the home primary cable TV **settop box** . To **connect** more devices, a media **client** (a small external **adapter** ) is required for each. The initial devices are networked via coaxial cable in order to keep costs down, but Ucentric platform's allows vendors to construct multiple network **interfaces** , including wired EtherNet, wireless, home phone line, and power line, to transport data. Organizations taking part in Ucentric's user trial rated their enthusiasm for the technology, with 70 percent saying multi-TV personal video-recording is a requirement. Almost three-quarters were very satisfied with shared broadband abilities, and half regard caller ID on TV/



PC , digital jukebox, and Web surfing on TV as very attractive applications.

COMPANY NAME: Vendor Independent (999999)  
SPECIAL FEATURE: Charts  
DESCRIPTORS: Broadband Internet Access; Cable Modems; Cable Television;  
Home Automation; Network Administration; Network Software;  
Telecommuting  
REVISION DATE: 20031016

30/5/21

DIALOG(R) File 256:TecInfoSource  
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00133888 DOCUMENT TYPE: Review

PRODUCT NAMES: Enterprise Application Integration (841331); Colleges & Universities (834076)

TITLE: EAI in Education  
AUTHOR: Hazari, Sunil, PhD  
SOURCE: eAI Journal, p38(3) Sep 2001  
HOMEPAGE: <http://www.eaijournal.com>

RECORD TYPE: Review  
REVIEW TYPE: Product Analysis  
GRADE: Product Analysis, No Rating

A discussion of enterprise application integration (EAI) in education considers EAI in academic environments, **security** , and portals. As increasing numbers of educational institutions learn the advantages of EAI, applications and services are being revamped to meet the needs of administrators, faculty, staff, students, parents, and alumni. Universities, which are a complex settings, have only slowly used advanced technologies that have been developed in their own labs, but EAI will significantly influence the betterment of education in the digital economy. EAI in education can help conventional universities compete more effectively with dot-com universities by **linking various** systems and **applications** to provide unified **secure** access to data and information, irrespective of its storage location. Information can be aggregated on the basis of need, and end-users are happier with reliable online access to current information. Data categories and types **include** administrative, student, academic, and campus. With EAI, universities can modernize business processes using such technologies as application and data integration, middleware, process flow, application hosting, portals, and wireless technologies. A group of universities has created a consortium designed to foster this trend by implementing Dynamic Host Configuration Protocol Server (DHCP), digital libraries, directory services, network commerce, enterprise calendar functions, metadirectories, and portals that support EAI.

COMPANY NAME: Vendor Independent (999999)  
SPECIAL FEATURE: Charts  
DESCRIPTORS: Colleges & Universities; Enterprise Application Integration;  
Integration Software; Portals  
REVISION DATE: 20020516

30/5/22

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File	647:	CMP Computer Fulltext 1988-2004/Aug W3 (c) 2004 CMP Media, LLC
File	674:	Computer News Fulltext 1989-2004/Aug W2  (c) 2004 IDG Communications
File	696:	DIALOG Telecom. Newsletters 1995-2004/Aug 25 (c) 2004 The Dialog Corp.

Set	Items	Description
S1	700	INTELLIGENT()MEDIA()ROUTER? OR IMR
S2	1991466	GATEWAY? OR ROUTER? OR NODE? ? OR BRIDGE? OR SWITCH? OR INTERFACE? OR PROTOCOL? OR ADAPTER? OR CONTROL()DEVICE? OR MULTIPLAYER? OR REPEATER? ? OR HUB OR HUBS
S3	355668	(PROCESS OR PROCESSING OR PREPARE? OR PREPARING OR MAKE? OR MAKES OR READY? OR READIES) (2N) (MEDIA OR MULTIMEDIA OR MULTI-()MEDIA OR VIDEO OR AUDIO? OR SOUND? OR VOICE OR IMAGE?)
S4	77693	(DIGITAL OR ELECTRONIC? OR DIGITIZED) () (DATA OR MUSIC OR AUDIO OR SONG? OR (HARMONIOUS OR VOCAL OR INSTRUMENT?) () SOUND? OR MULTIMEDIA OR MEDIA OR VIDEO OR AUDIO? OR SOUND?)
S5	3063296	COMPRIS? OR INCLUDE? OR CONTAIN?
S6	4399541	PLURAL? OR MULTIPL? OR VARIOUS OR SEVERAL OR MANY OR NUMEROUS
S7	9209281	MODULE? ? OR ENGINE? OR COMPONENT? ? OR ELEMENT? ? OR ROUTINE? OR APPLICATION? OR PROGRAM? OR DATABASE? OR DATA()BASE?
S8	3417334	INTERCONNECT? OR CONNECT? OR LINK? OR CORRELATION? OR RELATION? OR LINK? OR LINKAGE? OR RELATIONSHIP?
S9	607884	TRUSTED OR SECUR? OR CONFIDENCE OR ASSURANCE OR SURETY OR - APPROV?
S10	456263	ENCOD??? OR CIPHER? OR CYPHER? OR ENCRYPT? OR CRYPTO? OR SECUR???
S11	578078	SERVER? OR PROCESSOR? OR REPOSITORY? OR HOST?
S12	3669133	CLIENT? OR TERMINAL? OR COMPUTER? OR PC OR PERSONAL()COMPUTER? OR WORKSTATION? OR WORK()STATION? OR NODE? OR STAND()ALONE? OR STANDALONE?
S13	33049	SET()TOP()BOX? OR SETTOP()BOX? OR STB? ? OR INTEGRATED()PC-()TV OR GATEWAY OR INTERACTIVE() (TERMINAL OR DEVICE?) OR ENTERTAINMENT() (APPLIANCE? OR SYSTEM?) OR MP3 OR TARGET() DEVICE? - OR MEDIA()PLAYER? OR MEDIAPLAYER?
S14	18468	(THIRD OR 3RD OR OUTSIDE OR OUT()SIDE OR TRUSTED OR SUBMITTING) () (PARTY OR PARTIES OR AGENT?)
S15	1992100	S1 OR S2
S16	1451	S15 AND S3 AND S4
S17	6937	S15 AND S5 AND (S6 (2N) S7)
S18	66	S17 AND S8 AND S9
S19	18042	S10 AND S11 AND S12
S20	947	S10 AND S11 AND S13
S21	18321	S19 OR S20
S22	1	S16 AND S17 AND S18 AND S21
S23	1	S16 AND S18
S24	20	S16 AND S17
S25	23	S16 AND S21
S26	66	S17 AND S18
S27	11	S26 AND S21
S28	107	S18 OR S22 OR S23 OR S24 OR S25 OR S27
S29	104	S28 NOT PY>2003
S30	103	S29 NOT PD>20030407
S31	95	RD (unique items)
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File	233: Internet & Personal Comp. Abs. 1981-2003/Sep	(c) 2003 EBSCO Pub.
File	94: JICST-EPlus 1985-2004/Aug W1	(c) 2004 Japan Science and Tech Corp(JST)
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31/5/3 (Item 3 from file: 8)

DIALOG(R) File 8: Ei Compendex(R)

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06102217 E.I. No: EIP02317036281

**Title: Bluetooth based home automation system**

Author: Sriskanthan, Nadarajah; Tan, Forest; Karande, Advait

Corporate Source: School of Computer Engineering Nanyang Technological University, Singapore 639798, Singapore

Source: Microprocessors and Microsystems v 26 n 6 Aug 10 2002. p 281-289

Publication Year: 2002

CODEN: MIMID5 ISSN: 0141-9331

Language: English

Document Type: JA; (Journal Article) Treatment: T; (Theoretical)

Journal Announcement: 0208W1

Abstract: The past decade has seen significant advancement in the field of consumer electronics. Various 'intelligent' appliances such as cellular phones, air-conditioners, home **security** devices, home theatres, etc. are set to realize the concept of a smart home. They have given rise to a Personal Area Network in home environment, where all these appliances can be **interconnected** and monitored using a single controller. Busy families and individuals with physical limitation represent an attractive market for home automation and networking. A wireless home network that does not incur additional costs of wiring would be desirable. Bluetooth technology, which has emerged in late 1990s, is an ideal solution for this purpose. This paper describes an application of Bluetooth technology in home automation and networking environment. It proposes a network, which **contains** a remote, mobile **host** controller and **several client modules** (home appliances). The **client** modules communicate with the **host** controller through Bluetooth devices. copy 2002 Elsevier Science B.V. All rights reserved. 15 Refs.

Descriptors: Personal communication systems; Automation; Wireless telecommunication systems; Microcontrollers; Network **protocols**

Identifiers: Home automation systems

Classification Codes:

714.2 (Semiconductor Devices & Integrated Circuits)

716 (Electronic Equipment, Radar, Radio & Television); 731 (Automatic Control Principles & Applications); 714 (Electronic Components & Tubes);

723 (Computer Software, Data Handling & Applications)

71 (ELECTRONICS & COMMUNICATION ENGINEERING); 73 (CONTROL ENGINEERING);

72 (COMPUTERS & DATA PROCESSING)

31/5/4 (Item 4 from file: 8)

DIALOG(R) File 8: Ei Compendex(R)

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06087988 E.I. No: EIP02287011144

**Title: Watermarking of streaming video for finger-printing applications**

Author: Huang, Fengming; Hosseini, Habib M.; Chua, Hock Chuan; Guan, Yong Liang

Corporate Source: Schl. of Elec. and Electron. Eng. Nanyang Technological University, Singapore, Singapore

Conference Title: 2002 IEEE International Symposium on Circuits and Systems

Conference Location: Phoenix, AZ, United States Conference Date: 20020526-20020529

Sponsor: IEEE

E.I. Conference No.: 59248

Source: Proceedings - IEEE International Symposium on Circuits and Systems v 2 2002. p II/452-II/455 (IEEE cat n 02ch37353)

Publication Year: 2002

CODEN: PICSDI ISSN: 0271-4310

Language: English

Document Type: CA; (Conference Article) Treatment: A; (Applications); T; (Theoretical)

Journal Announcement: 0207W2

**Abstract:** The rapid expansion of e-commerce and e-entertainment applications over the Internet has dramatically increased the need for copyright protection of multimedia intellectual property. **Digital multimedia** watermarking, defined as imperceptibly embedding a secret digital code into the perceptual multimedia content, has been proposed as a major component of future copyright protection systems. Besides carrying ownership information, the embedded watermark can be made to carry **client** /transaction information so as to facilitate tracing of illegal re-distribution. Such form of "personalised watermarking" is also called "finger-printing". In this paper, we propose a real-time watermarking paradigm for finger-printing streaming videos over the Internet or a private video-on-demand network. Our paradigm is based on a 3-tier architecture which runs a proxy **server** in between the video **server** and the **client** 's video player. We adopt the proxy approach as we do not wish to modify the video **server** /player. The proxy **server** intercepts the **client** 's request and the video data transmitted by the **server** , embeds a watermark into the video data based on the **client** /transaction information, and re-encapsulate the video data within the transport packets. Based on this paradigm, we have developed a prototype capable of finger-printing MPEG4 streaming videos using standard video streaming **protocols** such as RTSP/RTCP/RTP. Pertinent design/implementation issues and results of this work will be discussed. 10 Refs.

**Descriptors:** Digital watermarking; **Video** signal processing ; **Multimedia** systems; **Video** on demand; Real time systems; **Security** of data; **Cryptography** ; Network **protocols** ; Copyrights; Codes (symbols); **Client server computer** systems

**Identifiers:** Streaming video; Finger printing applications; Copyright protection; Personalized watermarking; Three tier architecture; Usage tracing; Transport packets

**Classification Codes:**

723.2 (Data Processing); 716.4 (Television Systems & Equipment); 723.5 (Computer Applications); 722.4 (Digital Computers & Systems); 902.3 (Legal Aspects)

723 (Computer Software, Data Handling & Applications); 716 (Electronic Equipment, Radar, Radio & Television); 722 (Computer Hardware); 902 (Engineering Graphics; Engineering Standards; Patents)

72 (COMPUTERS & DATA PROCESSING); 71 (ELECTRONICS & COMMUNICATION ENGINEERING); 90 (ENGINEERING, GENERAL)

31/5/10 (Item 10 from file: 8)

DIALOG(R)File 8:Ei Compendex(R)

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04623832 E.I. No: EIP97023520716

**Title:** Proceedings of the 1996 4th ACM International Multimedia Conference

**Author:** Anon (Ed.)

**Conference Title:** Proceedings of the 1996 4th ACM International Multimedia Conference

**Conference Location:** Boston, MA, USA **Conference Date:** 19961118-19961122

**E.I. Conference No.:** 45965

**Source:** Proceedings of the ACM International Multimedia Conference & Exhibition 1996.. 452p

**Publication Year:** 1996

**CODEN:** 002179

**Language:** English

**Document Type:** CP; (Conference Proceedings) **Treatment:** G; (General Review); T; (Theoretical)

**Journal Announcement:** 9704W1

**Abstract:** The proceedings contains 65 papers from the fourth ACM International Multimedia Conference. Topics discussed include: multimedia analysis; motion pictures authoring; image parsing; systems building; scheduling; synchronization; groupwares; **encryption** ; user **interfaces** ; fault tolerant video **servers** ; chronophotography; **digital video** indexing and retrieval; Internet multimedia; and interactive systems and

coursewares.

Descriptors: Interactive **computer** systems; **Image processing** ; Motion picture cameras; Motion pictures; Information retrieval; Visual communication; Audio systems; Database systems; Wide area networks; Image communication systems

Identifiers: Multimedia; Video browsing; Text recognition; Audio content analysis; Image parsing; Video editing; Multimedia visual information seeking environment (MVISE); Internet; Fault tolerant video **servers** ; EiRev

Classification Codes:

722.4 (Digital Computers & Systems); 716.4 (Television Systems & Equipment); 723.2 (Data Processing); 742.2 (Photographic Equipment); 742.1 (Photography); 903.3 (Information Retrieval & Use)  
722 (Computer Hardware); 716 (Radar, Radio & TV Electronic Equipment); 723 (Computer Software); 742 (Cameras & Photography); 903 (Information Science)  
72 (COMPUTERS & DATA PROCESSING); 71 (ELECTRONICS & COMMUNICATIONS); 74 (OPTICAL TECHNOLOGY); 90 (GENERAL ENGINEERING).

31/5/12 (Item 12 from file: 8)

DIALOG(R) File 8:Ei Compendex(R)

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04426675 E.I. No: EIP96063219200

Title: **Proceedings of the 1995 3rd International Multimedia Conference and Exhibition, MULTIMEDIA'95**

Author: Anon (Ed.)

Conference Title: **Proceedings of the 1995 3rd International Multimedia Conference and Exhibition, MULTIMEDIA'95**

Conference Location: San Francisco, CA, USA Conference Date: 19951105-19951109

Sponsor: ACM

E.I. Conference No.: 44801

Source: **Proceedings of the ACM International Multimedia Conference & Exhibition 1995. ACM, New York, NY, USA. 550p**

Publication Year: 1995

CODEN: 002179

Language: English

Document Type: CP; (Conference Proceedings) Treatment: A; (Applications); G; (General Review); T; (Theoretical)

Journal Announcement: 9608W2

Abstract: The proceedings contains 64 papers from the Third International Multimedia Conference and Exhibition of the Assn. for Computing Machinery ((ACM). Topics discussed include content-based video indexing and retrieval, collaboration environments, cyber communities, multimedia storage **servers** , authoring flexible documents, **video processing** , speech and **audio interfaces** , multimedia network tools, video-centric information systems, video and image collections, multimedia networking, interactive **computer** systems, video in hypermedia, synchronization, multimedia technology in education, media **encoding** , and **computer** hardware and software.

Descriptors: Interactive **computer** systems; Distributed **computer** systems; Acoustic signal processing; Digital signal **processing** ; **Video** signal **processing** ; **Image processing** ; User **interfaces** ; Information retrieval; Indexing (of information); **Computer** aided instruction

Identifiers: Multimedia technology; Distributed multimedia systems; Content based indexing; Multimedia databases; World wide-web; **Digital audio** ; **Digital video** ; Video on demand; Digital libraries; EiRev

Classification Codes:

722.4 (Digital Computers & Systems); 716.1 (Information & Communication Theory); 716.4 (Television Systems & Equipment); 723.2 (Data Processing)  
722 (Computer Hardware); 751 (Acoustics); 716 (Radar, Radio & TV Electronic Equipment); 741 (Optics & Optical Devices); 723 (Computer Software)

72 (COMPUTERS & DATA PROCESSING); 75 (ACOUSTICAL TECHNOLOGY); 71 (ELECTRONICS & COMMUNICATIONS); 74 (OPTICAL TECHNOLOGY)



31/5/27 (Item 3 from file: 2)

DIALOG(R) File 2:INSPEC

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7638527 INSPEC Abstract Number: B2003-07-6135C-044, C2003-07-5260D-029

**Title: Multifunctional video stream processing system based on DSP**

Author(s): Shengxiang Wang; Hansheng Lu; Zhiyun Gao; Shanfeng Hou

Author Affiliation: Dept. of Electro-Opt. Eng., Beijing Inst. of Technol., China

Journal: Proceedings of the SPIE - The International Society for Optical Engineering Conference Title: Proc. SPIE - Int. Soc. Opt. Eng. (USA) vol.4925 p.663-7

Publisher: SPIE-Int. Soc. Opt. Eng,

Publication Date: 2002 Country of Publication: USA

CODEN: PSISDG ISSN: 0277-786X

SICI: 0277-786X(2002)4925L:663:MVSP;1-0

Material Identity Number: C574-2002-361

U.S. Copyright Clearance Center Code: 0277-786X/02/\$15.00

Conference Title: Electronic Imaging and Multimedia Technology III

Conference Sponsor: SPIE; Chinese Opt. Soc

Conference Date: 15-17 Oct. 2002 Conference Location: Shanghai, China

Language: English Document Type: Conference Paper (PA); Journal Paper (JP)

Treatment: Practical (P)

Abstract: We present a multifunctional **video stream processing** Peripheral Component Interconnect (PCI) card based on a special digital signal **processor** (DSP) chip. Real-time processing of the input video signal, such as 3D special effects, mixing graphic captions, making special transforms, and so on, is the core function of the system. The decoded or processed **digital video** can be compressed into an MPEG2 video stream by an MPEG2 **encoder** and captured on to the hard disc of a **computer** through the PCI bus, and it can be **encoded** directly as analog or digital output video. Through the PCI bus, MPEG2 videos saved on the hard disc can be read out and decoded by the card. Of course, the system can transform a video signal between analog and digital directly with the analog and digital **encoder** and decoder. It also supports parallel **digital video** input and output **interfaces**. Software control commands can be written to the system control module through the PCI multimedia **bridge** to select the exact function of the system. Finally, information for writing a driver for the PCI card is provided plainly. (5 Refs)

Subfile: B C

Descriptors: data compression; decoding; device drivers; digital signal processing chips; field programmable gate arrays; multimedia communication; peripheral **interfaces**; television equipment; video coding; VLSI

Identifiers: multifunction **video stream processing**; DSP chip; digital signal **processor**; Peripheral Component Interconnect; PCI card; 3D special effects; graphic captions; MPEG2; MPEG2 **encoder**; PCI bus; **encoder**; decoder; PCI multimedia **bridge**; VLSI; FPGA; virtual studio technology; video editing; device drivers

Class Codes: B6135C (Image and video coding); B1265F (Microprocessors and microcomputers); B6210R (Multimedia communications); B6430 (Television equipment, systems and applications); B7210E (Instrumentation buses and protocols); C5260D (Video signal processing); C5135 (Digital signal processing chips); C5610P (Peripheral interfaces); C6130M (Multimedia)

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31/5/39 (Item 15 from file: 2)

DIALOG(R) File 2:INSPEC

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5796655 INSPEC Abstract Number: B9802-7910-015, C9802-7150-024

**Title: Analog and digital interface solutions for the common large area display set (CLADS)**

Author(s): Hermann, D.J.; Gorenflo, R.L.

Author Affiliation: Battelle Memorial Inst., Columbus, OH, USA  
Journal: Proceedings of the SPIE - The International Society for Optical Engineering Conference Title: Proc. SPIE - Int. Soc. Opt. Eng. (USA)  
vol.3057 p.446-56  
Publisher: SPIE-Int. Soc. Opt. Eng,  
Publication Date: 1997 Country of Publication: USA  
CODEN: PSISDG ISSN: 0277-786X  
SICI: 0277-786X(1997)3057L:446:ADIS;1-V  
Material Identity Number: C574-97184  
U.S. Copyright Clearance Center Code: 0277-786X/97/\$10.00  
Conference Title: Cockpit Displays IV: Flat Panel Displays for Defense Applications  
Conference Sponsor: SPIE  
Conference Date: 23-25 April 1997 Conference Location: Orlando, FL, USA  
Language: English Document Type: Conference Paper (PA); Journal Paper (JP)

Treatment: Practical (P)  
Abstract: Battelle is under contract with Warner Robins Air Logistics Center to design a Common Large Area Display Set (CLADS) for use in multiple airborne command, control, communications, computers and intelligence (C/sup 4/I) applications that currently use unique 19 inch cathode ray tubes (CRTs). The CLADS is a modular design, with common modules used wherever possible. Each CLADS includes an application-specific integration kit, which incorporates all of the unique interface components. Since there is no existing digital video interface standard for high resolution workstations, a standard interface was developed for CLADS and documented as an interface specification. One of the application-specific modules, the Application Video Interface Module (AVIM), readily incorporates most of the required application electrical interfaces for a given system into a single module. The analog AVIM, however, poses unique design problems when folding multiple application interface requirements into a single common AVIM for the most prevalent workstation display interface: analog RGB video. Future workstation display interfaces will incorporate fully digital video between the graphics hardware and the digital display device. A digital AVIM is described which utilizes a fiber channel interface to deliver high speed 1280\*1024, 24-bit, 60-Hz digital video from a PCI graphics card to the CLADS. A video recording and playback device is described, as well as other common CLADS modules, including the display controller and power supply. This paper will discuss both the analog and digital AVIM interfaces, application BIT and power interfaces, as well as CLADS internal interfaces. (9 Refs)

Subfile: B C

Descriptors: aircraft displays; command and control systems; computer displays; large screen displays; military avionics; peripheral interfaces; video signal processing

Identifiers: common large area display set; digital interface solutions; analog interface solutions; multiple airborne C/sup 4/I applications; modular design; application-specific integration kit; standard interface; interface specification; application video interface module; workstation display interface; analog RGB video; fiber channel interface; PCI graphics card; video recording and playback device; display controller; internal interfaces; 60 Hz; 24 bit; 1280 pixel; 1024 pixel

Class Codes: B7910 (Military circuits, components, and equipment); B7930 (Military communications); B7260 (Display technology and systems); B6210L (Computer communications); B7630 (Avionic systems and aerospace instrumentation); C7150 (Military computing); C3375 (Military control systems); C5540 (Terminals and graphic displays); C5610P (Peripheral interfaces); C7460 (Aerospace engineering computing)

Numerical Indexing: frequency 6.0E+01 Hz; word length 2.4E+01 bit; picture size 1.28E+03 pixel; picture size 1.024E+03 pixel

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00658155 02NC03-110

**Amnis Systems NAC-3000 Live Streaming Video Server / Encoder and LivePlayer 1.2 Streaming Media Desktop Player**

Woods, Darrin

Network Computing , March 18, 2002 , v13 n6 p42-65, 11 Page(s)

ISSN: 1046-4468

Company Name: Amnis Systems

URL: <http://www.amnisinc.com>

Product Name: Amnis Systems NAC-3000 Live Streaming Video **Server /**

**Encoder**

Languages: English

Document Type: Hardware Review

Grade (of Product Reviewed): A

Geographic Location: United States

Presents a very favorable review of NAC-3000 Live Streaming Video **Server / Encoder** (\$6,995), enterprise streaming video solution from Amnis Systems. Explains that it is a hardware-based MPEG **encoder**. Cites straightforward **server** setup, LivePlayer which uses and modifies some portions of Windows **Media Player**, autodetection of video streams created by any of Amnis' products, multiple resolution choices, and a record button on the player which is useful for archiving live video. Mentions, however, that the **interface** is still telnet-based and the player has a serious problem with tearing. Concludes that it is a one-box solution for **encoding** both MPEG-1 and MPEG-2 streams. On a scale ranging from 0 to 5, received the rating of 4.35 and the 'Editor's Choice' award. Includes a photo, three tables, three sidebars, and 11 charts. (MEM)

Descriptors: Streaming **Media** ; **Digital Video** ; MPEG; **Video Processing** ; **Client - Server** Computing; Multimedia; Enterprise Computing

Identifiers: Amnis Systems NAC-3000 Live Streaming Video **Server / Encoder** ; Amnis Systems

31/5/60 (Item 13 from file: 233)

DIALOG(R) File 233:Internet & Personal Comp. Abs.

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00606578 00IWO7-002

**Streaming media makes business sense -- Improve corporate communications by deploying RealSystems G2 or Windows Media across the enterprise**

Borck, James R

InfoWorld , July 3, 2000 , v22 n27 p40-42, 3 Page(s)

ISSN: 0199-6649

Company Name: RealNetworks; Microsoft

URL: <http://www.real.com> <http://www.microsoft.com>

Product Name: RealSystem G2 Enterprise Edition; Microsoft Windows Media Technologies 4.1

Languages: English

Document Type: Software Review

Grade (of Product Reviewed): C; B

Geographic Location: United States

Puts forward a comparative review of two streaming media applications. Shows a mixed review of RealSystem G2 Enterprise Edition (\$9,995) from RealNetworks Inc. of Seattle, WA (800). Highlights its browserlike **client interface** and Macromedia Flash support. Indicates, however, that **server** licensing and support are both expensive. Presents a favorable review of Microsoft Windows Media Technologies 4.1 (\$0) from Microsoft Corp. of Redmond, (800). Cites its integration into Windows NT and Windows 2000, support of multiple bandwidth **encoding**, and good quality codecs. Mentions, however, that it is exclusive to Windows and lacks browser-based administration. Concludes that Windows Media is superior to RealSystem and offers lower total cost of ownership (TCO). On a scale ranging from one to five, RealSystem G2 received three while Windows Media received four. Includes a screen display, a diagram, and two product summaries. (MEM)

Descriptors: Streaming Media; Digital Video ; Digital Audio ;  
Broadband Communication; Client - Server Computing; Multimedia  
Identifiers: RealSystem G2 Enterprise Edition; Microsoft Windows Media  
Technologies 4.1; RealNetworks; Microsoft

31/5/64 (Item 17 from file: 233)  
DIALOG(R)File 233:Internet & Personal Comp. Abs..  
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00560008 00DD02-008

**Webrelay: a multithreaded HTTP relay server -- Authenticating clients  
for access control**

Zhang, Peter

Dr. Dobb's Journal , February 1, 2000 , v25 n2 p86-96, 8 Page(s)

ISSN: 1044-789X

Product Name: Webrelay

Languages: English

Document Type: Articles, News & Columns

Geographic Location: United States

Describes Webrelay, a freely available, multithreaded HTTP relay server, designed by the author, that authenticates a client to ensure that the client is a legitimate user before connecting it to the vendor Web server. Indicates that one design goal was the need for Webrelay to be as transparent as possible to both end users and library administrators, which precluded the use of conventional HTTP proxy servers. Explains that Webrelay mirrors whatever remote Web servers one wants to include and that it then maps the URL of a remote Web server to a virtual directory of the Webrelay. States that with regard to establishing a session and maintaining session data in a basically stateless HTTP protocol, the user is assigned a unique session key and is registered with the Session Control Engine. Attention is given to the user validation engine, handling multiple connections, and the URL conversion engine. Includes two diagrams. (jon)

Descriptors: Web Tools; Server ; Library; Connectivity ; Security

Identifiers: Webrelay

31/5/86 (Item 2 from file: 95)  
DIALOG(R)File 95:TEME-Technology & Management  
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01750030 20030508716

**Multifunctional video stream processing system based on DSP**

Wang Shengxiang; Lu Hansheng; Gao Zhiyun; Hou Shanfeng

Dept. of Electro-Optical Engng., Beijing Inst. of Technol., China

Electronic Imaging and Multimedia Technology III, 15-17 Oct. 2002,  
Shanghai, China Proceedings of the SPIE - The International Society for  
Optical Engineering, v4925, n2, pp663-667, 2002

Document type: Conference paper Language: English

Record type: Abstract

ISSN: 0277-786X

**ABSTRACT:**

We present a multifunctional video stream processing Peripheral Component Interconnect (PCI) card based on a special digital signal processor (DSP) chip. Real-time processing of the input video signal, such as 3D special effects, mixing graphic captions, making special transforms, and so on, is the core function of the system. The decoded or processed digital video can be compressed into an MPEG2 video stream by an MPEG2 encoder and captured on to the hard disc of a computer through the PCI bus, and it can be encoded directly as analog or digital output video. Through the PCI bus, MPEG2 videos saved on the hard disc can be read out and decoded by the card. Of course, the system can transform a video signal between analog and digital directly with the analog and digital encoder and decoder. It also supports parallel digital video input and output interfaces. Software control commands can be written to the system control

module through the PCI multimedia **bridge** to select the exact function of the system. Finally, information for writing a driver for the PCI card is provided plainly.

DESCRIPTORS: DATA COMPRESSION; DECODING; DIGITAL SIGNAL PROCESSING CHIPS; FIELD PROGRAMMABLE GATE ARRAYS; MULTIMEDIA COMMUNICATION; **COMPUTER INTERFACES** ; TELEVISION EQUIPMENT; VIDEO CODING; GRAND SCALE INTEGRATION; DIGITAL SIGNAL **PROCESSORS** ; CODER; DECODER  
IDENTIFIERS: GERAETETREIBER; MPEG 2 NORM; VIDEOBEARBEITUNG; Datenreduktion; Decodierung

31/5/87 (Item 3 from file: 95)  
DIALOG(R)File 95:TEME-Technology & Management  
(c) 2004 FIZ TECHNIK. All rts. reserv.

01691285 20021103099  
Digital Media im Visier. Texas Instruments: 600 MHz Digital Media Processor  
( Digital media at focus. Texas Instruments: 600 MHz digital media processor )  
anonym  
Markt und Technik, v77, n45, pp88, 2002  
Document type: Short journal article Language: German  
Record type: Abstract  
ISSN: 0344-8843

ABSTRACT:

Der **Digital Media Processor** DM642 (in einem Blockschaltbild dargestellt) von Firma Texas Instruments (TI) ist fuer den Einsatz in Videokonferenzsystemen, Ueberwachungssystemen, **Set - Top - Boxen** mit Video-on-Demand und IP-Video-Telefone vorgesehen. Der DM642 hat folgende Parameter: drei Dual-Channel-Video-Ports, ein serieller Multi-Channel-Audio-Port, ein 10/100-Ethernet-MAC, ein PCI- **Interface** mit 66 MHz, 500 MHz oder 600 MHz Taktfrequenz, volle Software-Programmierbarkeit, Real-Time ISO MPEG2, **Encoder** -Software, Decoder-Software. Der DM642 ist kompatibel zu TMS320C64x und auf Objektcode-Ebene mit C64x von DSPs von TI. Zur Softwareentwicklung stehen ein Network Video Developer Kit und die Entwicklungsumgebung Composer Studio zur Verfuegung. Erste Prototypen sollen im ersten Quartal 2003 zur Verfuegung stehen, der Produktionsbeginn ist fuer das dritte Quartal 2003 geplant.

DESCRIPTORS: IMAGE RESOLUTION; CODE CONVERSION; DECODER; DIGITAL SIGNAL **PROCESSORS** ; **COMPUTER** CONFERENCING; COMMUNICATION **TERMINALS** ; PROGRAMMING ENVIRONMENTS; PROTOTYPES; SOFTWARE TOOLS; CLOCK FREQUENCY; VIDEO CODING; **VIDEO** SIGNAL **PROCESSING**  
IDENTIFIERS: Bildverarbeitung; Bilduebertragung; Mikroprozessor

Set	Items	Description
S1	3341	INTELLIGENT()MEDIA()ROUTER? OR IMR
S2	3314318	GATEWAY? OR ROUTER? OR NODE? ? OR BRIDGE? OR SWITCH? OR INTERFACE? OR PROTOCOL? OR ADAPTER? OR CONTROL()DEVICE? OR MULTIPLAYER? OR REPEATER? ? OR HUB OR HUBS
S3	249394	(PROCESS OR PROCESSING OR PREPARE? OR PREPARING OR MAKE? OR MAKES OR READY? OR READIES) (2N) (MEDIA OR MULTIMEDIA OR MULTI-()MEDIA OR VIDEO OR AUDIO? OR SOUND? OR VOICE OR IMAGE?)
S4	449184	(DIGITAL OR ELECTRONIC? OR DIGITIZED) () (DATA OR MUSIC OR AUDIO OR SONG? OR (HARMONIOUS OR VOCAL OR INSTRUMENT?) () SOUND? OR MULTIMEDIA OR MEDIA OR VIDEO OR AUDIO? OR SOUND?)
S5	9766495	COMPRIS? OR INCLUDE? OR CONTAIN?
S6	8526720	PLURAL? OR MULTIPL? OR VARIOUS OR SEVERAL OR MANY OR NUMEROUS
S7	11959436	MODULE? ? OR ENGINE? OR COMPONENT? ? OR ELEMENT? ? OR ROUTINE? OR APPLICATION? OR PROGRAM? OR DATABASE? OR DATA()BASE?
S8	7365713	INTERCONNECT? OR CONNECT? OR LINK? OR CORRELATION? OR RELATION? OR LINK? OR LINKAGE? OR RELATIONSHIP?
S9	6699096	TRUSTED OR SECUR? OR CONFIDENCE OR ASSURANCE OR SURETY OR - APPROV?
S10	2690510	ENCOD??? OR CIPHER? OR CYPHER? OR ENCRYPT? OR CRYPTO? OR SECUR???
S11	3049248	SERVER? OR PROCESSOR? OR REPOSITORY? OR HOST?
S12	7813688	CLIENT? OR TERMINAL? OR COMPUTER? OR PC OR PERSONAL()COMPUTER? OR WORKSTATION? OR WORK()STATION? OR NODE? OR STAND()ALONE? OR STANDALONE?
S13	492119	SET()TOP()BOX? OR SETTOP()BOX? OR STB? ? OR INTEGRATED()PC-()TV OR GATEWAY OR INTERACTIVE() (TERMINAL OR DEVICE?) OR ENTERTAINMENT() (APPLIANCE? OR SYSTEM?) OR MP3 OR TARGET() DEVICE? - OR MEDIA()PLAYER? OR MEDIAPLAYER?
S14	672392	(THIRD OR 3RD OR OUTSIDE OR OUT()SIDE OR TRUSTED OR SUBMITTING) () (PARTY OR PARTIES OR AGENT?)
S15	3317166	S1 OR S2
S16	1512	S15 (S) S3 (S) S4
S17	13880	S15 (S) S5 (S) (S6 (2N) S7)
S18	887	S17 (S) S8 (S) S9
S19	98050	S10 (S) S11 (S) S12
S20	14524	S10 (S) S11 (S) S13
S21	105225	S19 OR S20
S22	20	S16 (S) S17 (S) S18 (S) S21
S23	25	S16 (S) S18
S24	64	S16 (S) S17
S25	102	S16 (S) S21
S26	887	S17 (S) S18
S27	409	S26 (S) S21
S28	105	S26 (S) S14
S29	16	S28 (S) S4
S30	78	S22 OR S23 OR S24 OR S29
S31	78	S30 NOT PY>2003
S32	70	S31 NOT PD>20030407
S33	47	RD (unique items)
File	15:ABI/Inform(R)	1971-2004/Aug 26
	(c)	2004 ProQuest Info&Learning
File	810:Business Wire	1986-1999/Feb 28
	(c)	1999 Business Wire
File	647:CMP Computer Fulltext	1988-2004/Aug W3
	(c)	2004 CMP Media, LLC
File	275:Gale Group Computer DB(TM)	1983-2004/Aug 27
	(c)	2004 The Gale Group
File	674:Computer News Fulltext	1989-2004/Aug W2
	(c)	2004 IDG Communications
File	696:DIALOG Telecom. Newsletters	1995-2004/Aug 27
	(c)	2004 The Dialog Corp.
File	621:Gale Group New Prod.Annou.(R)	1985-2004/Aug 27
	(c)	2004 The Gale Group
File	636:Gale Group Newsletter DB(TM)	1987-2004/Aug 27
	(c)	2004 The Gale Group

File 813:PR Newswire 1987-1999/Apr 30  
    (c) 1999 PR Newswire Association Inc  
File 613:PR Newswire 1999-2004/Aug 27  
    (c) 2004 PR Newswire Association Inc  
File 16:Gale Group PROMT(R) 1990-2004/Aug 27  
    (c) 2004 The Gale Group  
File 160:Gale Group PROMT(R) 1972-1989  
    (c) 1999 The Gale Group  
File 553:Wilson Bus. Abs. FullText 1982-2004/Jul  
    (c) 2004 The HW Wilson Co

33/3,K/2 (Item 1 from file: 647)  
DIALOG(R)File 647:CMP Computer Fulltext  
(c) 2004 CMP Media, LLC. All rts. reserv.

01180503 CMP ACCESSION NUMBER: EET19981207S0066

**Plug-and-play plugs USB into audio**

Jay Caras, Vice President, Strategic Planning, Altec Lansing Technologies  
Inc., Milford, Pa.

ELECTRONIC ENGINEERING TIMES, 1998, n 1038, PG96

PUBLICATION DATE: 981207

JOURNAL CODE: EET LANGUAGE: English

RECORD TYPE: Fulltext

SECTION HEADING: Signals - Focus: Digital Audio

WORD COUNT: 1486

... USB devices do not "talk" to each other, they only talk to the host, sometimes through USB **hubs**. The host must interpret all data and commands, process them and then route them appropriately. In Windows 98, the USB audio driver is built into the Windows driver model architecture and can **interface** to **various modules** like software MIDI, software SoundBlaster emulation and the kernel mixer. The kernel mixer **contains** a multistream mixer and sample-rate converter and signal **router**. This enables the PC to **process** the **audio** and/or game soundtrack in software and route the **digital - audio** data out to the USB bus.

The Apple Mac OS 8.5 also contains the USB driver...

33/3,K/6 (Item 4 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
(c) 2004 The Gale Group. All rts. reserv.

02263306 SUPPLIER NUMBER: 53633515 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Videoconferencing: Lucent Technologies announces new Internet-based  
videoconferencing system, Lucent Collaborative Video. (Product  
Announcement)**

EDGE, on & about AT&T, NA

Jan 25, 1999

DOCUMENT TYPE: Product Announcement LANGUAGE: English

RECORD TYPE: Fulltext

WORD COUNT: 1283 LINE COUNT: 00114

**TEXT:**

...low-cost PC-based solution. With the Lucent Collaborative Video system, customers can extend their existing Internet **Protocol** (IP) networks to **include** seamless multipoint video meetings (in NTSC or PAL), real-time application sharing, and management and storage of...

...revolution that Lucent is leading. The technical and creative freedoms that are unleashed with this system will **make** Internet **video** communication as seamless tomorrow as e-mail is today." The Lucent Collaborative Video system is a hardware...

...3, as well as a Pentium 5 or better with 64 MB RAM and TCP/IP network **adapter**. For more information on the Lucent Collaborative Video system, visit the Web site at [www.multimedia.bell...](http://www.multimedia.bell...)

...Collaborative Video system is part of this heritage." POST-PRODUCTION Click3X, part of the IllusionFusion group of **digital media** companies, delivers digital effects, animation, and broadcast design services for clients ranging from Sony to ITT Industries. With offices in New York, San Francisco, Atlanta, and Los Angeles, Click3X wants to maintain real-time **relationships** with remote clients. The Lucent Collaborative Video system allows Click3X to maintain continuous creative sessions with those...

...Internet gaming. Agora Interactive, based in Louisville, Kentucky, is developing a network of video arcades that deliver **multiplayer** games through the Lucent Collaborative Video system. The initial trial of the



Agora system will consist of...

...Compaq Computer will provide Agora with the PC hardware and support, and PSINet will deliver high-bandwidth **connections** to their global IP backbone. Through Agora's Global Access Total Entertainment (G.A.T.E.) system...

...users. "There are more than 1,000 PC games introduced each year, and our ability to deliver **multiplayer** gaming through a network of interactive kiosks is very potent," said Andrew Prell, CEO of Agora Interactive...

...are not aware of the technology at all." MEDICAL The medical industry has been using videoconferencing for **various applications**, including educational sessions, patient consultation, and remote collaboration. The introduction of low-cost Internet-based videoconferencing, through...based in Louisville, Kentucky, is creating the interactive communication system for the 21st century. Agora's technology **links** consumers to entertainment and e-commerce venues while they are away from home. Agora has developed and...

...agencies such as basic ordering agreement, fixed fee, and cost plus fixed fee. D&A offers ATM **switches**, **routers**, PBXes, fiber optics, video teleconferencing, CCTV, access control points, and electronic **security** systems. For more information on the company, visit their Web site at [www.dnal.net](http://www.dnal.net). Lucent Technologies...

33/3,K/9 (Item 7 from file: 275)

DIALOG(R)File 275:Gale Group Computer DB(TM)

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01301156 SUPPLIER NUMBER: 07413202 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**The next generation of interactive technologies. (Special Section)**  
**(technical)**

Frenkel, Karen A.

Communications of the ACM, v32, n7, p872(10)

July, 1989

DOCUMENT TYPE: technical ISSN: 0001-0782

LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 7545 LINE COUNT: 00578

... ROM

CONFERENCE

While researchers wrestle with the technical issues of interactive multimedia, developers are grappling with creating **applications** for many formats without complete, usable development tools and authoring systems. What would be an optimal tool for the...

...production? Product will be built not solely by engineers, but by graphic artists, erstwhile movie and documentary **makers**, former **sound** studio technicians, or combinations of all of these, along with software engineers. Their areas of expertise therefore...

...since CD-ROM is a medium for storing and retrieving the textual, graphical, video, and audio data **comprising** multimedia, much rests on the direction of that infant industry. But figures vary due to methodologies and...

...or minus 10,000) will grow 40.1 percent for the same period, and DC-video, which **includes** DVI and CD-I, will grow 33.5 percent. Looking just at the CD-ROM installed base...year sales could reach 150,000. Drives cost from \$500 to \$1,0000, depending on features and **interfaces**. Some call CD-ROM drives "professional" to distinguish them from home CD-DA ( **Digital Audio** ) players for stereos.

Whether multimedia industry participants think of CD-ROM as a storage or distribution medium...

33/3,K/14 (Item 5 from file: 674)

080907

**GigaCam simplifies wireless video**

Byline: Mark Brownstein

Journal: Network World

Publication Date: January 21, 2000

Word Count: 400 Line Count: 36

**Text:**

... X10's miniature camera transmits video and audio up to 100 feet. by Mark Brownstein, special to PC World Wireless video got a little easier on Wednesday, when X10 announced its new GigaCam, a video...

... smaller than a golf ball. The device is expected to sell for less than \$100. A receiver **included** in the GigaCam package receives the video and audio signals. The video signal can be viewed on a video monitor, recorded on a VCR, or viewed on a **computer** display using a video capture device. With the proper software, the signals can be distributed over the...

...Because the GigaCam can be mounted almost anywhere, it provides the user with more options than most **computer** cameras, Peder notes. The camera "is useful in **many applications**, right from the beginning. It operates effectively in home automation, home **security**, and home entertainment," Peder adds. Prime-Time Viewing To view the video, users can send the signal output by the receiver to a video capture card, or **connect** the video signal output to a **digital video** camera that features a **video** input (Intel **makes** such a camera). **Computer** users who don't have a video capture device can use an XRay Vision kit, which **includes** a video-to-USB cable and software for viewing the images on the Internet. XRay Vision **includes** a **server** application that can send the video to a **server**, and also **includes** **client** software for viewing the images. GigaCam can transmit and receive over any of four channels, making it...

... use as many as four X10 video transmitters (XCams or GigaCams) simultaneously. The current version of GigaCam **includes** a power transformer that must be plugged into a wall-outlet or extension cord to provide power...

... directly from X10's Web site. The company typically offers additional bonuses such as remote controllers or **switches** with each purchase.

33/3,K/25 (Item 1 from file: 621)

DIALOG(R) File 621:Gale Group New Prod.Annou.(R)

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03075795 Supplier Number: 80916577 (USE FORMAT 7 FOR FULLTEXT)

**IndigoVision Inks Deal with Richardson Electronics to Deliver Digital CCTV Products; Digital Video Company Signs Third Deal with Major Global Security Distributor in 2001.**

PR Newswire, pSFW02419122001

Dec 19, 2001

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 652

... the VideoBridge(R) trademark, IndigoVision's technology powers products in entertainment, monitoring, visual communications and wireless. Applications **include** networked cameras, **digital video** recorders, video servers, video clients, video administration solutions, videoconferencing, traffic enforcement cameras, MP4 players, Internet TV, set-top boxes, and much more. VideoBridge can **switch** in real-time between multiple industry-standard **protocols** for compression, transmission and recording, so that a VideoBridge powered product can span **multiple** video **applications**. Simply put, it is the technology "glue" that brings together

the many **video** standards and **makes** a universal platform for transmission and broadcast over Internet **Protocol** (IP).

NOTE: VideoBridge is a trademark of IndigoVision Limited and is a registered trademark of IndigoVision Limited...

33/3,K/26 (Item 2 from file: 621)  
DIALOG(R)File 621:Gale Group New Prod.Annou.(R)  
(c) 2004 The Gale Group. All rts. reserv.

03075318 Supplier Number: 80916465 (USE FORMAT 7 FOR FULLTEXT)  
**MagicBox Inc. Gets Aavelin Digital Signage Message To The World With FOCUS Enhancements FS450 Video Processor.**  
Business Wire, p2180  
Dec 19, 2001  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 912

... support in their multi-media centric OS."  
About the FS450

The FOCUS Enhancements FS450 family of ASICs **contains** the highest quality NTSC/PAL **digital video** processors on the market. Unlike other PC-to-TV video conversion chips, the FS450 supports true broadcast quality video. It also has a flexible input/output structure allowing it to be compatible with **many** non-traditional **applications**. In addition to its superior video quality, the FOCUS FS450 features advanced **video processing** technology, allowing a seamless conversion from progressive to interlaced video. The FS450 incorporates a 2D Flicker Filter...

...down scaler fits the incoming resolution to the output display format. The CCIR 656 ports allow external **interface** to other video chips. The sync control block generates frame reset for genlocking other video components. Required...

33/3,K/27 (Item 3 from file: 621)  
DIALOG(R)File 621:Gale Group New Prod.Annou.(R)  
(c) 2004 The Gale Group. All rts. reserv.

03004711 Supplier Number: 78852399 (USE FORMAT 7 FOR FULLTEXT)  
**IndigoVision Increases Speed of Adoption to Digital Video Networks in U.S.**  
PR Newswire, pNA  
Oct 3, 2001  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 891

... the VideoBridge(R) trademark, IndigoVision's technology powers products in entertainment, monitoring, visual communications and wireless. Applications **include** networked cameras, **digital video** recorders, video servers, video clients, video administration solutions, videoconferencing, traffic enforcement cameras, MP4 players, Internet TV, set-top boxes, and much more. VideoBridge can **switch** in real-time between multiple industry-standard **protocols** for compression, transmission and recording, so that a VideoBridge powered product can span **multiple video applications**. Simply put, it is the technology "glue" that brings together the many **video** standards and **makes** a universal platform for transmission and broadcast over Internet **Protocol** (IP).

This connects sectors of the video market that previously could not speak to each other. VideoBridge...

33/3,K/34 (Item 3 from file: 636)  
DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
(c) 2004 The Gale Group. All rts. reserv.

02949786 Supplier Number: 46002501 (USE FORMAT 7 FOR FULLTEXT)  
**IBM USES ITS NEW TIGERSHARK PARALLEL FILE SYSTEM TO DEMONSTRATE INTERACTIVE VIDEO ON THE I-WAY**  
Computergram International, n2812, pN/A  
Dec 12, 1995  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 403

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

...San Diego. With a 100Mbps AT&T Corp Asynchronous Transfer Mode network under the hood, the demonstration **included** an interactive question-and-answer session over a live video link, plus recording and playback of stored clips. Some 16 other sites were plugged into the streams. Eight IBM RS/6000 SP2 **nodes** attached to a 500Gb RAID subsystem served up a single system via IBM's Vulcan High Performance **Switch** to a further 20 SP2s. The SP2s were running a new enabling technology called Tigershark, described as...

...disk and readies it for delivery across the network at 30 frames per second using Real Time **Protocol**, eliminating the usual jerky movements associated with **digital video**. As well as participating in the development of Tigershark, Argonne co-developed other software-enabling 'glue' including C and C++ parallel scripting languages for Tigershark to tie the **various IBM components** together and put the material out across the Internet, including stream feeders, catalogue server and stream writers ...

...but expects in future that anyone with a 1Mbps (two-thirds T1 speed) or better connection - which **includes** ISDN - plus a Unix, Windows or Mac browser supporting **video** decomposition could **make** use of the service. IBM plans to begin rolling out the architecture on pilot SP2 sites next...

33/3,K/36 (Item 1 from file: 613)

DIALOG(R)File 613:PR Newswire

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00946841 20030312LAW054 (USE FORMAT 7 FOR FULLTEXT)

**ADAM Systems Takes Center Stage at Digital Media Facility**

PR Newswire

Wednesday, March 12, 2003 07:17 EST

JOURNAL CODE: PR LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT

DOCUMENT TYPE: NEWSWIRE

WORD COUNT: 1,628

TEXT:

...track conversion, asset sequencing and registration, analysis, conformance and correction, storyboarding, proxy and browse generation. The hardware **includes** a three-tiered hierarchical storage management system, consisting of integrated online, nearline and offline storage, streaming servers and ingest servers. The system provides a browser-based user **interface** for querying, ordering, system management, and individual production work bins. The HTML based **interface** screens, accessible remotely through any IP based network or the Internet, are customizable to accommodate each customer...and may be part of a larger production or operations scheme for creation, archiving and distribution of **digital media** products.

At the heart of this pioneering system is a modular framework that ties together high-speed video and audio management and repurposing **engines**, **many** exclusive to the innovative ADAM Systems engineering team. These

processing  
engines interact with each other, parallelizing each...

...ADAM Systems E-Series is an  
intelligent online platform for the ultra-fast conversion of film and  
**video**  
formats, **processing** of special effects, mixing of sound and vision,  
generation  
of DVDs, assembly of broadcast features, and preparation...

**33/3,K/41** (Item 6 from file: 613)  
DIALOG(R)File 613:PR Newswire  
(c) 2004 PR Newswire Association Inc. All rts. reserv.

00659928 20011018SFTH014 (USE FORMAT 7 FOR FULLTEXT)  
**IndigoVision Unveils Mainstream(TM) - First MPEG4 CodecS Qtrf Call**  
PR Newswire  
Thursday, October 18, 2001 08:09 EDT  
JOURNAL CODE: PR LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
DOCUMENT TYPE: NEWSWIRE  
WORD COUNT: 586

...the VideoBridge(R) trademark, IndigoVision's technology  
powers products in entertainment, monitoring, visual communications and  
wireless. Applications **include** networked cameras, **digital video**  
recorders,  
video servers, video clients, video administration solutions,  
videoconferencing, traffic enforcement cameras, MPEG4 players, Internet TV,  
set-top boxes, and much more. VideoBridge can **switch** in real-time between  
multiple industry-standard **protocols** for compression, transmission and  
recording, so that a VideoBridge powered product can span **multiple video**  
**applications** . Simply put, it is the technology "glue" that brings  
together the  
many **video** standards and **makes** a universal platform for transmission  
and  
broadcast over Internet **Protocol** (IP).  
This connects sectors of the video market that previously could not  
speak  
to each other. VideoBridge...

**33/3,K/42** (Item 7 from file: 613)  
DIALOG(R)File 613:PR Newswire  
(c) 2004 PR Newswire Association Inc. All rts. reserv.

00651296 20011003SFW041 (USE FORMAT 7 FOR FULLTEXT)  
**IndigoVision Increases Speed of Adoption over Broadbandtion**  
PR Newswire  
Wednesday, October 3, 2001 08:06 EDT  
JOURNAL CODE: PR LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
DOCUMENT TYPE: NEWSWIRE  
WORD COUNT: 844

...the VideoBridge(R) trademark, IndigoVision's technology  
powers products in entertainment, monitoring, visual communications and  
wireless. Applications **include** networked cameras, **digital video**  
recorders,  
video servers, video clients, video administration solutions,  
videoconferencing, traffic enforcement cameras, MP4 players, Internet TV,  
set-top boxes, and much more. VideoBridge can **switch** in real-time between  
multiple industry-standard **protocols** for compression, transmission and  
recording, so that a VideoBridge powered product can span **multiple video**  
**applications** . Simply put, it is the technology "glue" that brings  
together the  
many **video** standards and **makes** a universal platform for transmission  
and

broadcast over Internet **Protocol** (IP).

This connects sectors of the video market that previously could not speak to each other. VideoBridge...

**33/3,K/43 (Item 8 from file: 613)**

DIALOG(R) File 613:PR Newswire

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00649988 20011001SEFM136 (USE FORMAT 7 FOR FULLTEXT)

**IndigoVision Launches Partner Program to Help Securityarkrs**

PR Newswire

Monday, October 1, 2001 15:13 EDT

JOURNAL CODE: PR LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT

DOCUMENT TYPE: NEWSWIRE

WORD COUNT: 584

TEXT:

...the VideoBridge(R) trademark, IndigoVision's technology powers products in entertainment, monitoring, visual communications and wireless. Applications **include** networked cameras, **digital video** recorders, video servers, video clients, video administration solutions, videoconferencing, traffic enforcement cameras, MP4 players, Internet TV, set-top boxes, and much more. VideoBridge can **switch** in real-time between multiple industry-standard **protocols** for compression, transmission and recording, so that a VideoBridge powered product can span **multiple video applications** . Simply put, it is the technology "glue" that brings together the many **video** standards and **makes** a universal platform for transmission and broadcast over Internet **Protocol** (IP).

This connects sectors of the video market that previously could not speak to each other. VideoBridge...